H.264 NETWORK Embedded DVR

USER MANUAL

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RICK OF ELECTRIC SHOCK DO NOT REMOVE COVER. NO USER SERVICABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products ' enclosure that may be of sufficient magnitude to constitute a risk of electric shock

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF THE PLUG TO THE WIDE SLOT AND FULLY INSERT.

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1. INTRODUCTION

1.1. PREODUCT INTRODUCE

The series of DVR include 4 channels,8 channels and 16 channels ,this is 4CH digital video recording DVR, which have local recording, playback, support triple code remote network surveillance, data backup, parameter setting, motion detection, I/O alarm setting, PTZ and USB mouse, USB2.0 backup, IE browser and back up etc.

1.2. PRODUCT FEATURE

- ✧ H.264 compression
- ✧ Two USB interface, USB2.0 for data backup, USB2.0 for mouse operation.
- ✧ Support 1 pcs 3.5" SATA HDD at most.
- ✧ Special file system for security.
- ✧ 16 bit color translucent user-friendly GUI, with notes for selected menu items
- ✧ Optimized one four channel simultaneously playback
- ✧ Double level user management
- ✧ Support the live view, parameter setting and copy playback video via network.

1.2.1. SPECIFICATION

4CH DVR specification

Module	4CH
Picture compression	H.264
Video in	1.0Vp-p/75Ω，BNC×4
Video out	1.0Vp-p/75Ω，BNC×1；VGA×1
Resolution	Live：D1 Record：4CH D1
Frame rate	PAL :100 Fps(CIF) NTSC :120 Fps(CIF)
Audio input	RCA×1
Audio output	RCA×1
Audio codec	G.711A
Video mode	Manual recording , Scheduled recording，Movement alarm video and External alarm recording
Network interface	RJ45,100M/1000M
PTZ	support
communication interface	RS485×1， USB2.0×2
Data storage	Support 1 SATA HDD（300GB-2TB）

Mouse	USB Mouse
Remote control	Support
voltage input	DC12V/5A

1.2.2. BASIC WORKING PARAMETER

Item	Parameter	Description
Voltage input	12V	DC 12V
Video impedance input	75Ω	75Ω Each channel.
Video output	1Vp-p	1Vp-p CVBS signal
RS485		Connect to PTZ, (Pelco-D,Pelco-P)
SATA HDD		One SATA HDD (up to 2T)

1.3. ENVIRONMENT ADAPTABILITY

For safety while using the DVR and to prolong device life, please pay attention to the following details：

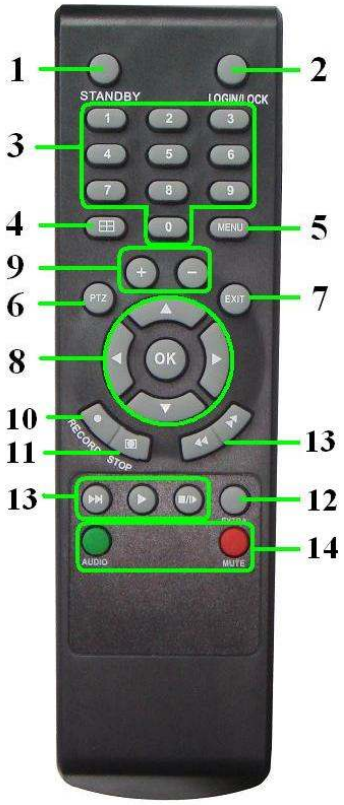
1) When installing device, please comply with all the electric product safety criteria.
2) Power and ground:

- Do not touch the power and DVR with a wet hand
- Do not drop liquid on DVR
- Do not put any object on DVR
- Please use soft dry cloth to clean DVR; do not use chemical impregnant.
- The Device will have voltage before startup if the power line is connected to power Source.
- Please unplug power line from power source if the Device is not intended to be used for a prolonged time.

2. DEVICE OPERATION

In device operation, the enter key on remote control has the same function as left click of the mouse.

2.1. REMOTE KEY INSTRUCTION



2.1.1. REMOTE CONTROL

The remote control is the secondary input device
For navigating the system's interface.
To use the remote control:
1. **STANDBY**: Press to turn on/off standby mode.
2. **LOGIN/LOCK**: Remote control can control the device through the device number is landing, Locked shielded remote control equipment
3. **Number/Channel buttons**: While in menus, press buttons 0~9 to enter values; during live viewing, press to view channels in full-screen.
4. ⊞: Press to switch between quad and split-screen displays.
5. **MENU**: Opens the main menu.
6. **PTZ**: Press to open the PTZ control window.
7. **EXIT**: Close menu windows.
8. **Navigation/OK**:
- ▲: Move cursor in menus up,Channel Up
- ▶: Move cursor in menus right,Channel Up, during playback, increase forward playback speed (2X, 4X, 8X,16X,32X).
- ◀: Move cursor in menus left, Channel down, during playback, increase reverse playback speed (2X, 4X, 8X,16X,32X)
- ▼: Move cursor in menus down, Channel down
- **OK**: In menus, press to confirm selections;

9. +/ - : In menus, press to adjust values.
10. **RECORD**: Press to start manual recording.
11. **STOP**: Press to stop manual recording.
12. **EXTRA**: For the future use.
13. **Playback controls**:
- ◀◀: Increase reverse playback speed 2X, 4X, 8X,16X,32X;
- ▶: Press to start playback;
- ▶▶: Press to increase forward playback speed 2X,4X, 8X,16X,32X;
- ▶▶|: Press to slow playback speed by 1/2, 1/4, 1/8, 1/16,1/32;
- ■▶: Press to freeze playback to one frame, then press again to advance frame-by-frame

14.**AUDIO/MUTE**: Turn on/off audio

TIP: When using the remote control to enter password and camera titles, select the field using the navigation buttons press ENTER, and then press the number buttons.

2.1.2. Use Remote controller to select the device number:

Press 【**LOGIN/LOCK**】 key, and enter device number, then you can control the device by this remote control. (Device number is available in 【PASSWORD】)
For example. Select the device with number "000001".
Press 【**LOGIN/LOCK**】+【1】,then the remote controller can control this device.

Remark:
1. Remote controller can control the device with number"000000" as default.

2. If press【**LOGIN/LOCK**】+【0】, then the remote controller can control device with any number.
3. The number of device should be smaller than 000255.

2.1.3. MOUSE OPERATION

The mouse is the primary input device for navigating system menus.
NOTE: Unless otherwise noted, all system functions described in this manual are achieved through mouse input.
To use a mouse with the system:

1) Connect a USB mouse to the **USB MOUSE port** on rear panel of the system.

NOTE: Only the top USB port on the rear panel is designed for data backup to a USB flash drive. Do not connect a USB flash drive to the bottom USB port on the rear panel.

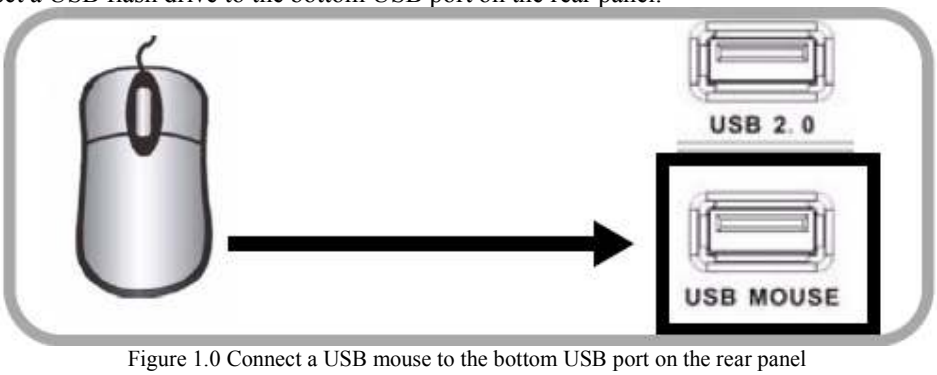


Figure 1.0 Connect a USB mouse to the bottom USB port on the rear panel

2) Use the mouse buttons to perform the following:
   - **Left-Button**: Click to select a menu option; during live viewing in split-screen, double-click on a channel to view the selected channel in full-screen.; double-click the channel again to return to split-screen view
   - **Right-Button**: In real-time preview, Right-click a menu list, select the main menu to enter the system menu, The menu page, click the right mouse button to return to the previous
3) **Scroll-Wheel**: No function.

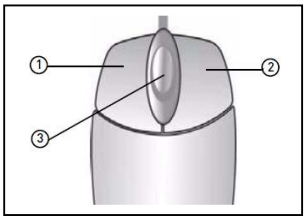
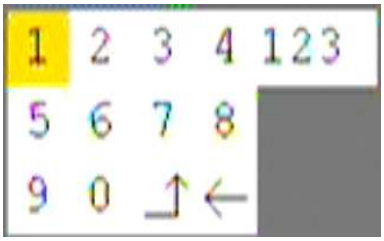


Figure 1.1 Mouse button operation

When using the mouse, you can input certain values using the onscreen virtual keyboard.
You will need to use the Virtual Keyboard when entering your User ID and Password.

4) Virtual **Keyboard** (Mouse)

To use the Virtual Keyboard:



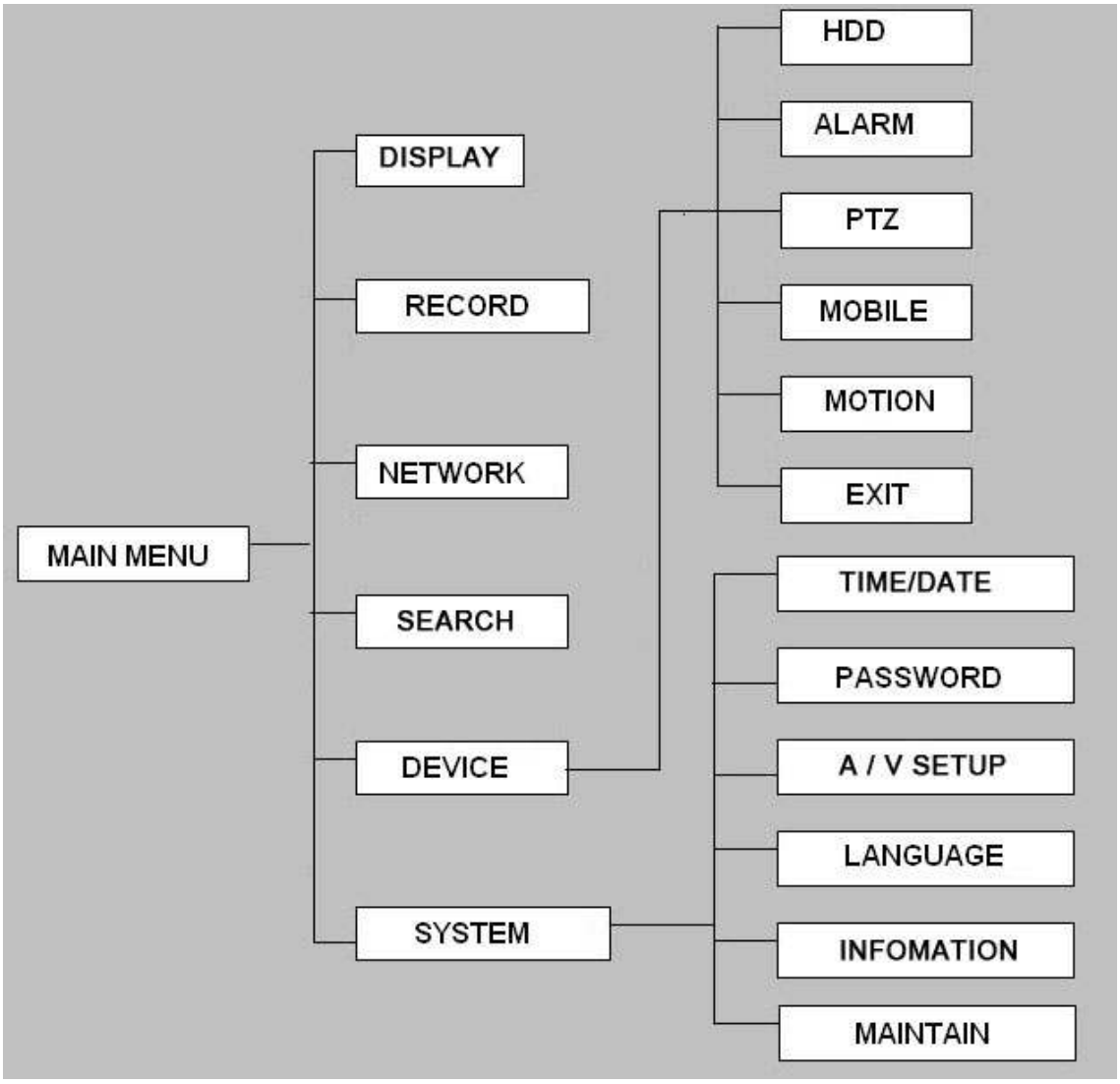
1. Click on an option or field, such as the User ID and Password fields.
2. Click 0~9 to key-in the desired digit.
3. Click 123 to switch between numerals, upper and lowercase letters, and other characters (Different input box has a different input method switch)
4. Click ← to Backspace/Delete.

NOTE: The buttons will turn from orange to white when you select the button with the mouse cursor.

5. Click to enter/confirm and close the Virtual Keyboard.

2.1.4. MENU TREE

You can control the DVR by a lot of menu operation. This tree will show you the menu structure and it will be in details in after chapter.



2.2. SYSTEM OPERSTION

2.2.1. USER LOGIN

2.2.1.1 STARTING THE SYSTEM

To power the system ON/OFF:

Connect the power cable to the DC 12V port on the rear panel. At startup, the system performs a basic system check and runs an initial loading sequence. After a few moments, the system loads a live display view.

ATTENTION: By default, passwords are **disabled** on the system. You do not need to enter a password when accessing any system menus. However, for security purposes, it is highly recommended to enable passwords on the system using the Password Menu.

NOTE:

1) If there is no HDD in device, or the device didn`t read the HDD, or the HDD didn`t be formatted it will display an 【H】 in the video preview interface.
2) You must format the HDD in the DVR before first using. The steps as follows: Main Menu > Device>HDD management > format. After formatting, the system will restart.

2.2.1.2 SYSTEM LOGIN

Login the main menu: Right-click anywhere on the screen, it will pop-up a menu list, then select [main menu]; If use remote controller or front panel, just press [MENU] button.

Username: Click the User Name drop-down box, select your user name. If you want to register another user to login, please select [admin] to login, and choose:[Main Menu]-[System]-[Password], to open the another user.

Password: Enter the correct password.

Note: The default system password is enabled, every time you boot into the system requires you to enter the password for the user name to enter the system. (System Administrator [**admin**] default password is: **123456**), or (default password of [user1] is: **123456**)

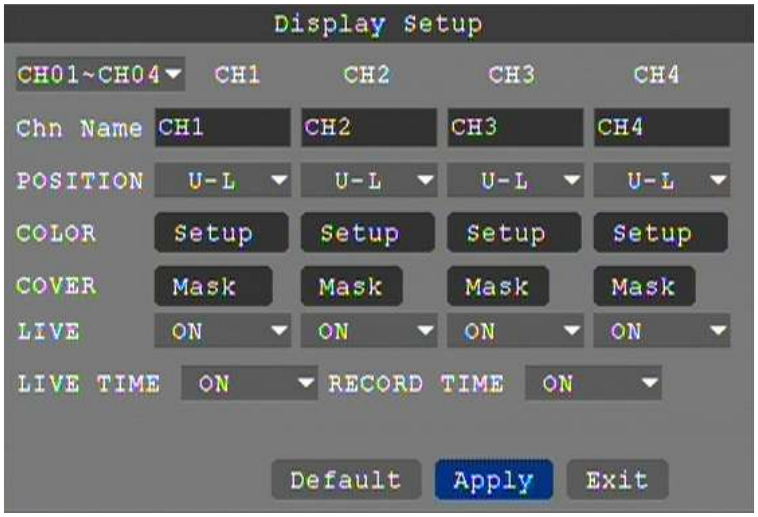
2.2.2. GUI OPERATION

The main menu include “DISPLAY”, “RECORD”, “NETWORK”, “SEARCH”, “DEVICES”,and “SYSTEM”.

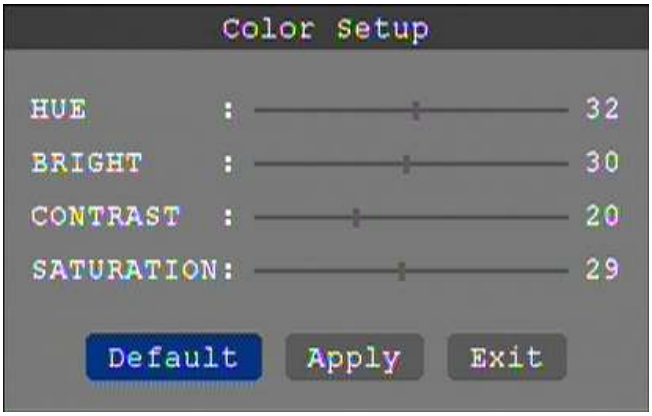
Remark: You must after pressing "APPLY" to make the setting for submenu valid. It will no use when exit directly. This DVR have a special feature is: when you move the mouse to everywhere, there will have the explanation information showed auto.

2.2.2.1 DISPLAY

Move the cursor to【DISPLAY】（Icon with the orange box means that selected）, press【Enter】to enter into the setting interface.



CH01~CH04: click to pop up pull-down box to switch to other channel to carry out setting.
CHN NAME: press【Enter】to enter into the setting interface.
POSITION: press【Enter】 to switch name location, there are 5 options.
COLOR: press【Enter】to enter into setting interface, as following:



Press【Enter】or【+】【-】key or directly drag the cursor to set colors, including chroma, brightness, contrast and saturation, press【APPLY】to save the parameters.

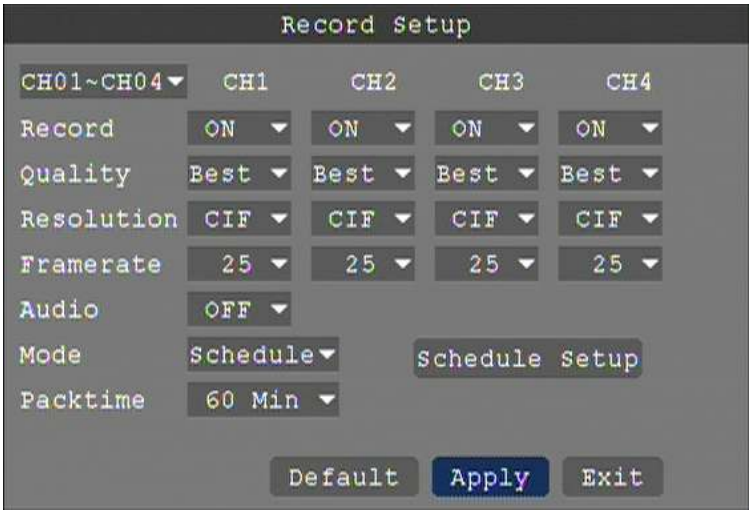
Cover: Click on the [Mask] button to enter this channel preview screen editing block area, Live drag the left mouse button to edit the block area, Then right click menu, select [Save] button to edit the entry into force, This channel preview block region black display, as shown:

LIVE: ON: Means the channel is allowed to view the live mode, OFF means not.

LIVE TIME(display time while in live view)): ON: Means yes, OFF means not.
RECORD TIME(display time while recording): ON: Means yes, OFF means not.

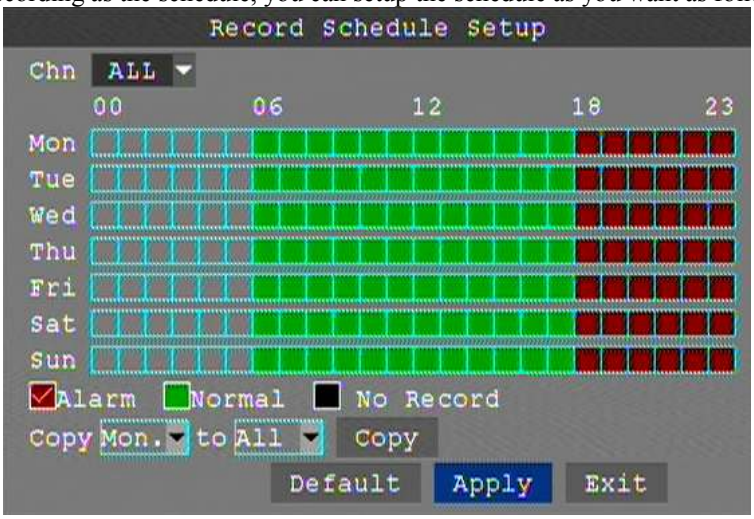
2.2.2.2 RECORD SETUP

Move the cursor to 【RECORD】（Icon with the orange box means that selected）,press【Enter】to enter into the setting interface. Press【Confirm】 and enter into the setup interface, and you can use direction keys and cursor to change the options.



CH01~CH04: click to pop up pull-down box to switch to other channel to carry out setting.
RECORD: ON: Means the channel enable for recording. OFF means not enable.
QUALITY: There are three options, corresponding different data stream standard.
FRAMERATE: Can set 1-30frame
RESOLUTION: CIF.
AUDIO: ON: Means enable the audio recording for all channels, OFF: Means disable audio recording
REC.MODE:

Always: Means the device will start recording when it startup.
Schedule: Recording as the schedule, you can setup the schedule as you want as follow.



CHANNEL: You can select all channels or just one channel to setup schedule.
WEEKLY: You can setup each as you want. There are ALARM, NORMAL, NO REC three modes, if you select this, there will have a √ in the frame, that means when you select the period of the day it will record as this mode, and you can just setup one day, then copy the setting to all other days. Different color means different record mode: Red means alarm record, green means normal record, grounding means no record.

PACK TIME: There are 15min, 30min, 45min, 60min four options, that means it will pack as the mode you selected

Scroll to **APPLY** and press **ENTER** to save the new settings.

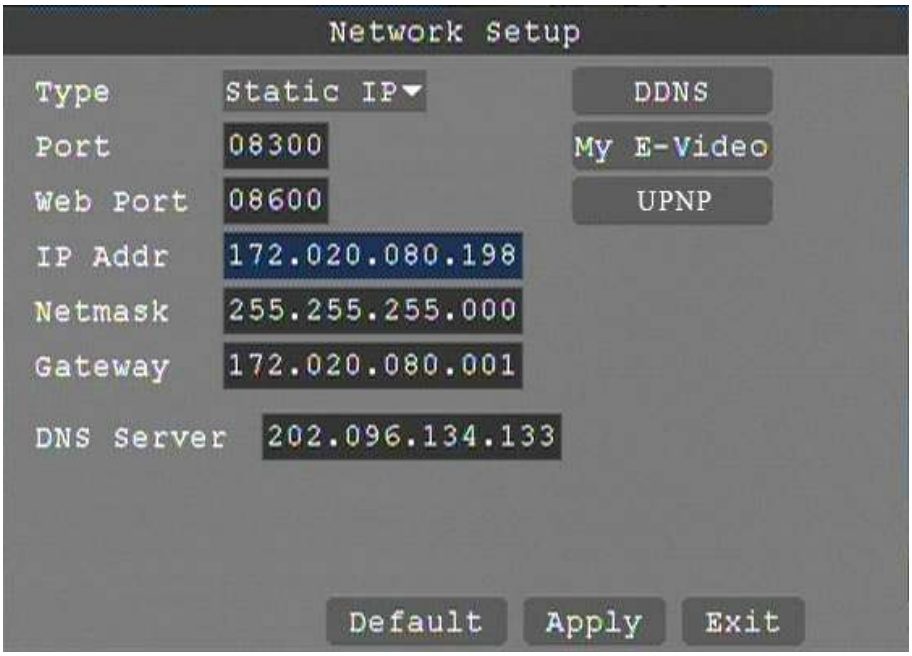
2.2.2.3 NETWORK SETUP

Move the cursor to 【NETWORK】 (Icon with the orange box means that selected), and press 【Enter】 to enter into setting interface .

TYPE: There are DHCP & Static three options.

● **STATIC**

Select [Static] in the type, and press [Enter] to enter into the interface as followings



PORT： For video transmission via IE/CLIENT.

WEB PORT: setup the port of IE browser via HTTP.

IP ADDR: setup the IP address, and press [Enter] or number keys to change the value.

NETMASK: press [Enter] or number keys to change the value.

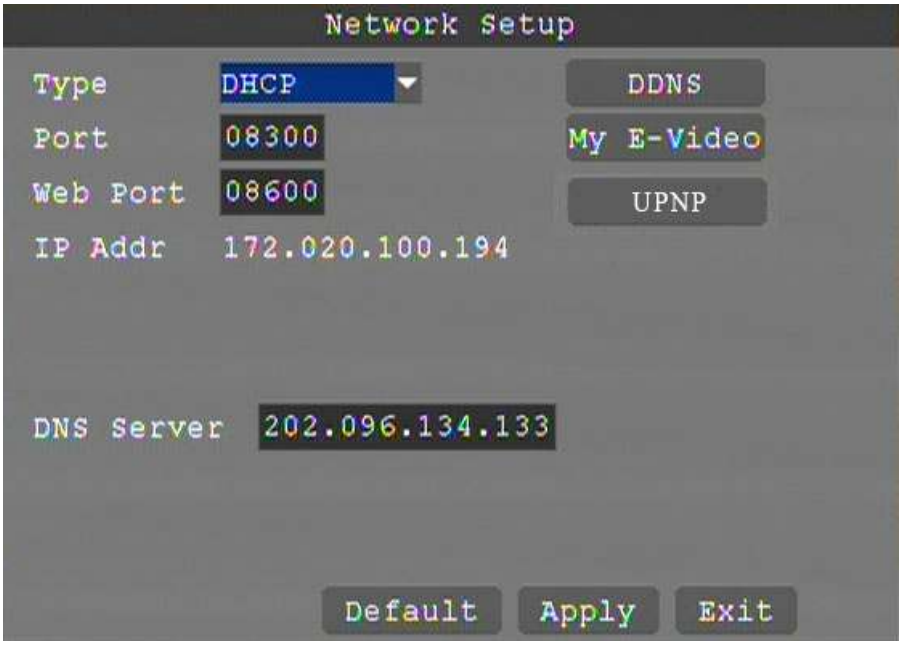
GATEWAY: press [Enter] or number keys to change the value.

E-Video： The user can review the DVR IE from : **http://ie.scc21.com** .(For more operation step please refer to Chapter V appendix)

UPNP: Universal Plug And Play

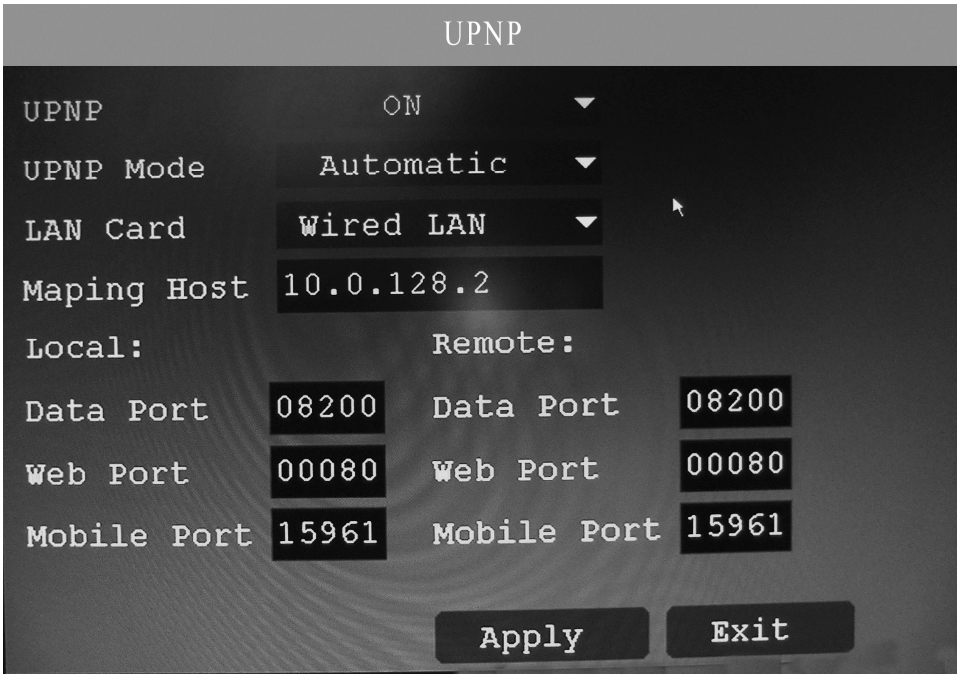
● **DHCP**

Select the DHCP, and enter into the interface as followings.



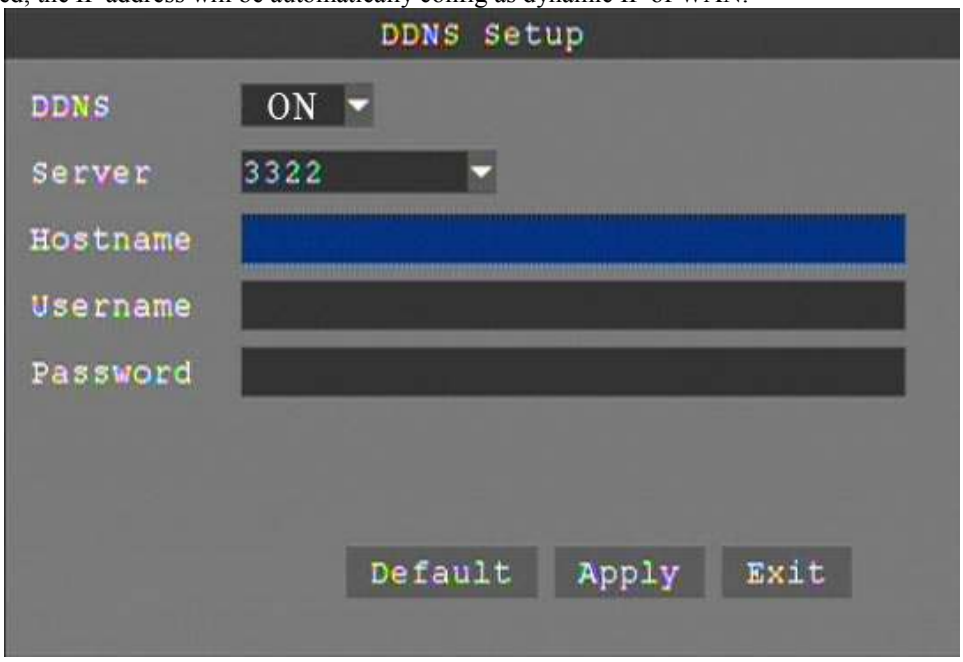
PORT: the communicate port between PC and DVR, recommend use default port.
WEB PORT: setup the port of IE browser via HTTP.
Remark: when you setup the net mode as DHCP, the router will arrange a dynamic IP for DVR.

UPNP: Universal Plug And Play, the router will auto forward the DVR port



MEDIA PORT: the communicate port between PC and DVR, recommend use default port
WEB PORT: setup the port of IE browser via HTTP.
MOBILE PORT： the port for mobile view, you should open the port in the router for mobile view. Please note that the server port of DVR must with the same port of mobile .
PPPOE username and password: fill the username and password of the internet service offer, and apply it and reboot the system. After rebooting, the device will save it and set the PPPOE as default network type.

If succeed, the IP address will be automatically config as dynamic IP of WAN.

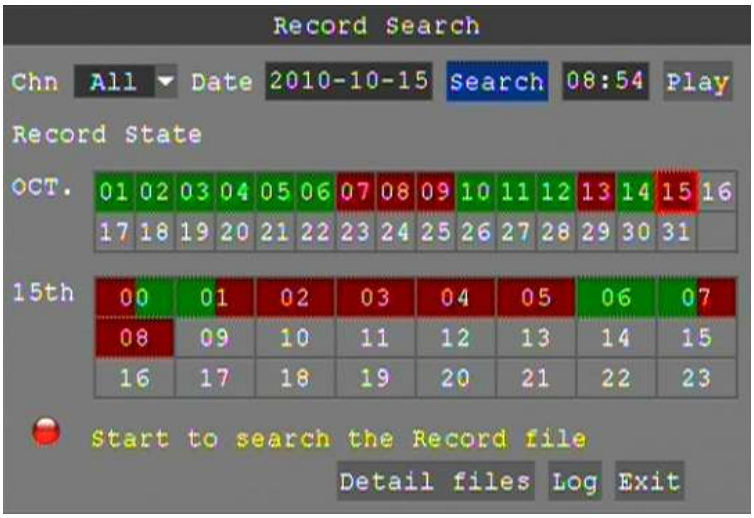


DDNS: There are [ON/OFF], and if there is a DDNS service, please setup it as ON.
Server: User can select required DDNS server, there are 4 options: 3322, dyndns,nightowldvr,no-ip.
Domain NAME: Input the name of the host server.
USERNAME: Input in the name of the user.
PASSWORD: Input the password for DDNS.

2.2.2.4 SEARCH

Move the cursor to 【SEARCH】（Icon with the orange box means that selected）,press【Enter】 to enter into the setting interface.

DATE: You can adjust the checking date and time, press【Enter】 input the number directly to adjust the year,month,date.After finishing the time setting, move the cursor to "SEARCH" and press"APPLY",can see the recording status of this date. As follow:



Instruction:

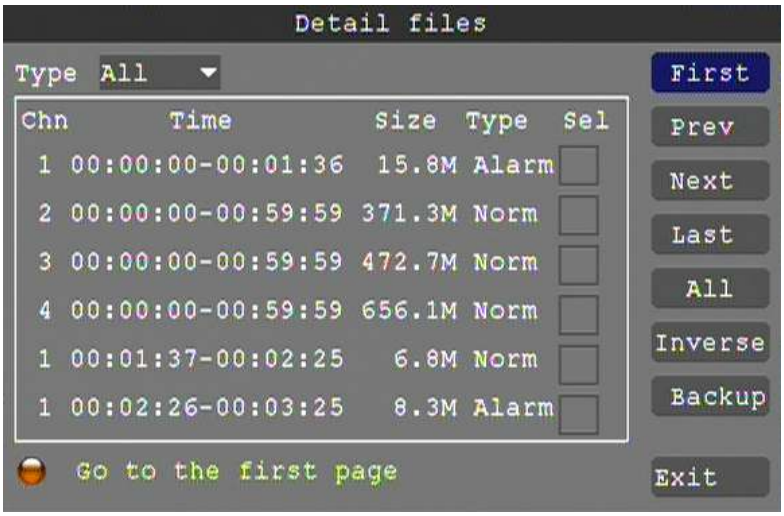
1. MONTH: It will show all the recording status in this month. Green means normal recording, Red means alarm recording, Grounding means no recording. Click any date in this frame can search the recording status of that day, the searching result will be showed in the below date frame.

2. DAY: It will show all the recording status in this day, you can playback the record file in this period

via click the corresponding period.
PLAY: You can press 【Enter】 input number directly to setup playback time. After setting, move the cursor to "PLAYBACK", and then press"APLLY"to enter into video playback of that time. Also you can select any period of time in the video status frame after searching,press"APLLY"to enter into the video playback of this period.
DETAIL FILES: Enter into the video file list interface of the selected date.
LOG SEARCH: Enter into the log searching interface.

2.2.2.5 DETAIL FILES

Setup the searching date, after pressing "SEARCH",move the cursor to "Detail files" and press"APPLY"to enter into the video file list of this date.



Then you can select four channels as you want to playback.

Instruction:

1. 【DETAIL FILES】,"CHANNEL"is the recording file which belong to which channel, "SIZE" is display the size of this file（Unit:MB）, "TYPE" is display the type of recording file, there are two types: normal and alarm,press"BACKUP"button can export the selected files to USB storage;

2. After moving the cursor up and down and select the files, and press【APPLY】to enter into playback interface. If the all channels have recording files, it will be playback all windows at the same time.

3. If setup as "Open" in the【RECORD TIME】in 【DISPLAY】, it will show the date/time when playback record file; If setup as "Close"it will not display time.

4. When playback, can press【⏭】to play slowly; press【⏩】and【⏪】to speed、reverse play; also

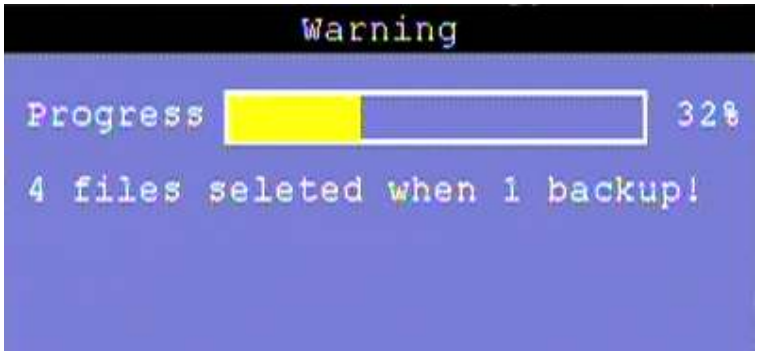
can press【 ■▶】to pause and frame by frame play; Press【Exit】to exit from playback and return to the former menu;

5. When finished playback files, it will return to the file list interface.

2.2.2.6 BACKUP

You can use USB for backup, should insert USB device into the USB2.0 port before backup files. And it is support USB OTG.

You can select the recording file by direction keys, and press【Enter】means selected OK（There is a "√" at the end of the selected recording files）and press 【Enter】again the "√" will disappear that means cancel the select, we can start export the recording files after selecting, and press【BACKUP】to start to backup, as follow:



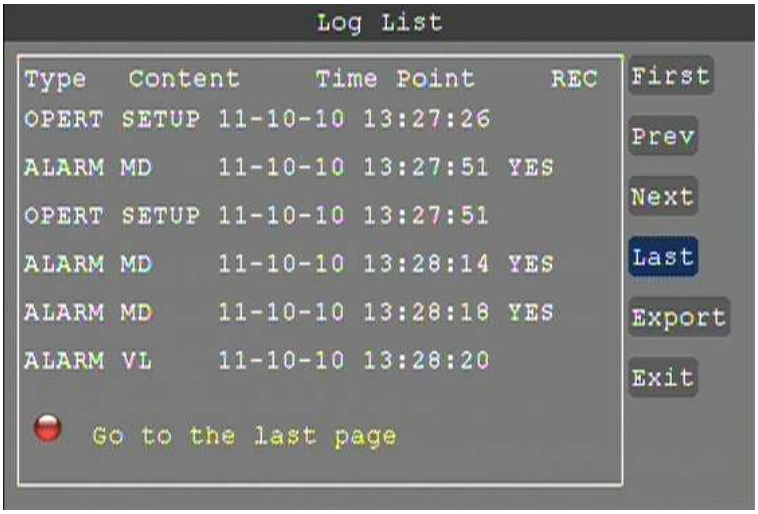
Instruction:

1. When the space in backup device less than recording file, the system will prompt "Space no enough".

2. You can move USB device directly when backup finished.

2.2.2.7 LOG SEARCH

Move the cursor to "LOG SEARCH" and press"APPLY"to enter into the log file list of DVR, as follow window.



INFO: means the alarm type.

TRIGGER: means the alarm triggered time.

VIDEO: means whether the log has corresponding video file.

2.2.3. DEVICE SETUP

Move the cursor to【DEVICE】（Icon with the orange box means that selected）,press【Enter】to enter into setting interface.

Advanced Features include HDD, ALARM, PTZ, MOBILE and MOTION DETECT.

2.2.3.1 HDD MANAGE

Move the cursor to 【HDD】（Icon with the orange box means that selected）,press【Enter】to enter into the setting interface, and you can use direction keys and cursor to change the options.

HDD STATUS: There status is ok means the HDD is ok. If HDD can not run normally（including unformat and no HDD）, there is a【H】display on video live view, DVR can support 1HDD at most.so you can select the HDD you want to format here.

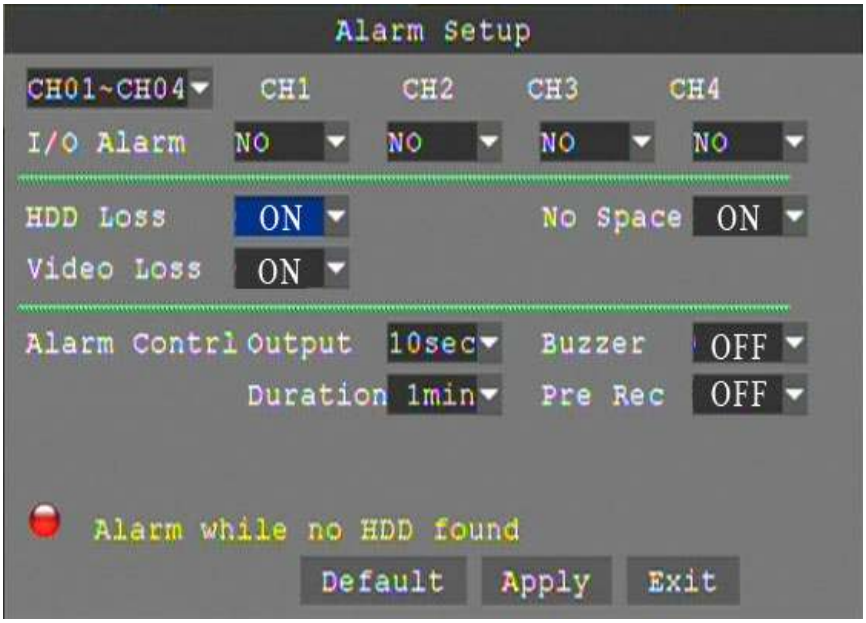
OVERWRITE:AUTO: means when HDD space less than 4G, it will delete HDD earliest recording file, and it will stop deleting when the space is 10G; OFF: means when HDD space less than 500M it will stop recording,also can set DVR auto delete video after 1hour/3hour/1day/7day/30day.

Format HDD: Move cursor there to select device and press【APLLY】 to start formatting.

Format USB: format the external thumble drive.

2.2.3.2 ALARM SETUP (Optional)

Move the cursor to【ALARM】（Icon with the orange box means that selected）,press【Enter】to enter into setting interface.



CH01~CH04: click to pop up pull-down box to switch to other channel to carry out setting.
I/O ALARM: Each channel has an I/O status, that is, when an alarm triggered, it will activate the corresponding channel to start alarm recording.

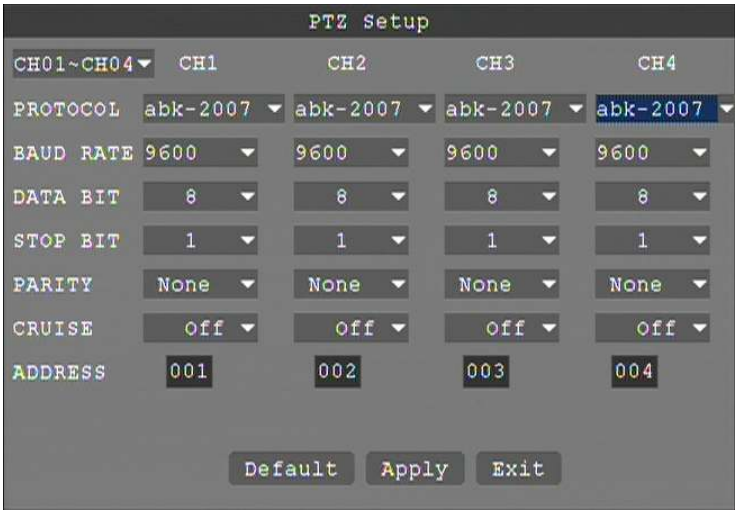
N.O: indicate I / O input level from high to low effective
N.C: indicate I / O input level from low to high effective

HDD LOSS:ON means it will trigger a alarm if there is no HDD, and it will display an 【H】 On the bottom left of channel 1 in the live view
No Space: ON: If the space less than 500M, there is a remark in live view: No enough space, please change HDD after shutdown.
VIDEO LOSS: ON: when one channel has no video input, it will display "video loss"in live view.
ALARM CONTRL: There are alarm output, buzzer Durationand pre Rec four items.

- OUTPUT: when an alarm triggered, the alarm output time will be:
  0 second、10 seconds,20 seconds,40 seconds and 60 seconds
- BUZZER: buzzer calling time setup when alarm triggered:OFF,10 seconds,20 seconds,40 seconds and 60 seconds
- DURATION.:post recording time setup: 30 seconds,1 minute,2 minutes and 5 minutes
- PRE REC:OFF/ON

2.2.3.3 PTZ SETUP

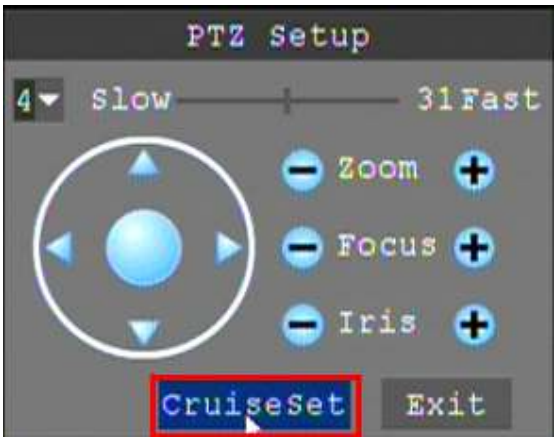
Move the cursor to【PTZ】（Icon with the orange box means that selected）,press【Enter】to enter into setting interface, you can setup the parameters for each channel separately.
CH01~CH04: click to pop up pull-down box to switch to other channel to carry out setting.
PROTOCOL: select the protocol of different PTZ, there are two protocols to switch, and the default is Pelco-D
BAUD RATE: select the different baud rate for your PTZ, there are 1200, 2400, 4800, ,9600,38400,57600 and 115200.
DATA BIT: there are 5,6,7,8 options to select, default setting is 8.
STOP BIT: there are 1and 2 to select, the default setting is 1.
PARITY: there are None/Odd/Even/Mark/Space to select, the default setting is none.
CRUISE: ON means open the scanning auto-cruise function for corresponding channel,
OFF means not open
ADDRESS: Fill the code of respective PTZ



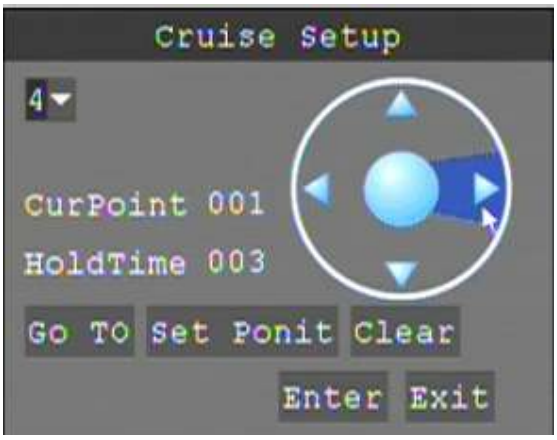
PTZ Control

1.

2



3



All Functions		
	Pointer **Auto Pan**	**To select the direction of PTZ** **The middle circle is for auto pan of PTZ.**

Zoom	**Zoom in/zoom out**	
Focus	**Focus**	
Iris	**Iris**	
Slow 31 Fast	**Volume**	**PTZ control the speed**
1	**Channel select**	**For selecting the channels of PTZ camera.**
CruiseSet	**Cruiseset**	**To cruise setup**
Exit	**Exit**	**To back to previous page or exit**
Go TO	**Go to preset point**	**Allow you to go to a specific preset point.**
Set Ponit	**Set Ponit**	**Allow you set a set of specific preset points of a PTZ camera. Also it can Adjust the camera in a fix point.**
Clear	**Clear**	**Allow you to delete the selected preset**
CurPoint 001	**Curoint**	**It indicates the starting point cruised. System default point is 01.**
HoldTime 003	**Holdtime**	**Sets the stop time at each point**
Enter	**Save**	**Save the changed and the preset point.**

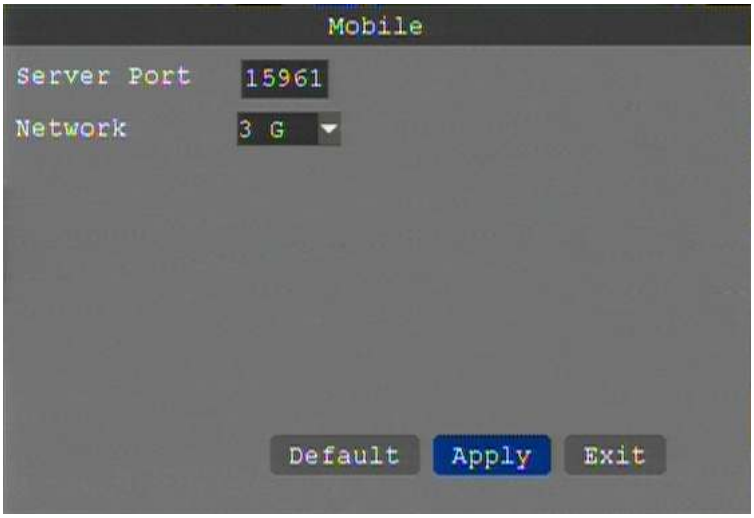
Cruise(PTZ)

This function allows to start cruise of PTZ camera.（accouding the presetting point to auto-cruise）

2.2.3.4 MOBILE

Move the cursor to【MOBLE】（Icon with the orange box means that selected）,press【Enter】to enter

into setting interface.

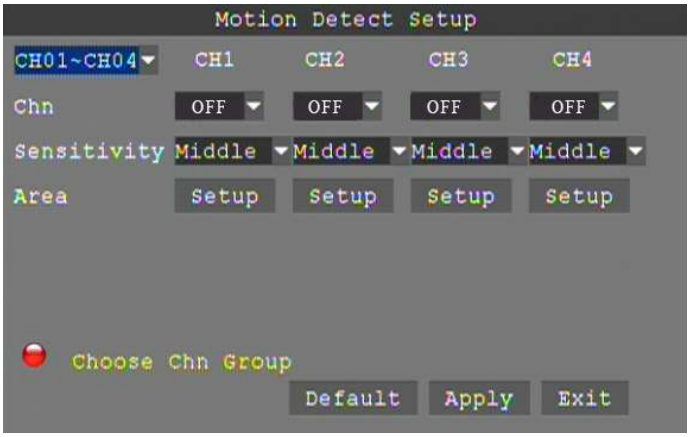


PORT: the port for mobile view, you should open the port in the router for mobile view. Please note that the server port of DVR must with the same port of mobile .

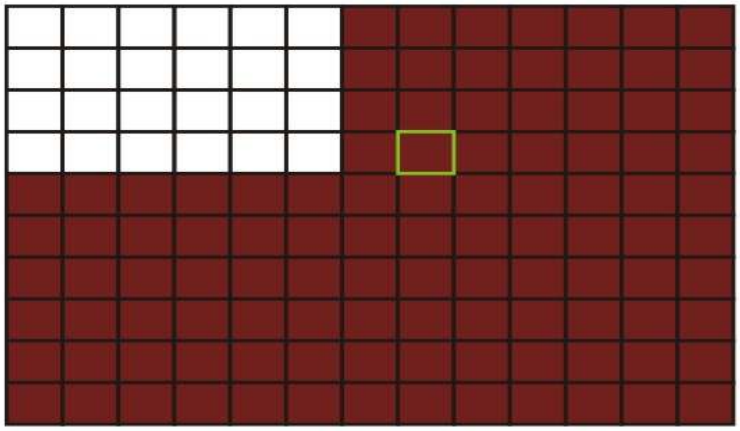
Network: Select different mobile network from the options of WIFI, 2.5G, 2.7G,3G and WIFI, and press [Enter] to switch different network.

2.2.3.5 MOTION DETECT

Move the cursor to【MOTION】（Icon with the orange box means that selected）,press【Enter】to enter into setting interface.



CH01~CH04:click to pop up pull-down box to switch to other channel to carry out setting.
STATUS: Each channel has corresponding channel switch, press 【Enter】to turn on or turn off the motion detection for each channel..
SENSITIVITY: Each channel has corresponding sensitivity setting, including four standards highest,high,middle and low, press【Enter】key to switch
MD AREA: each channel has corresponding regional motion detecting setting, move the cursor to corresponding 【setting】,press【Enter】to enter regional setting interface, red area means it have activated motion detection, transparent block means it have not activated motion detection.



Move the direction key on remote control to make cursor move in the small pane, green frame means the cursor has moved to this pane, press【Enter】to select or cancel motion detection of this small pane, when setup finished, press【exit】to back to MD setup interface, it will save automatically.

Remark:

IR Operation: press [Menu] key to select or cancel the entire screen.

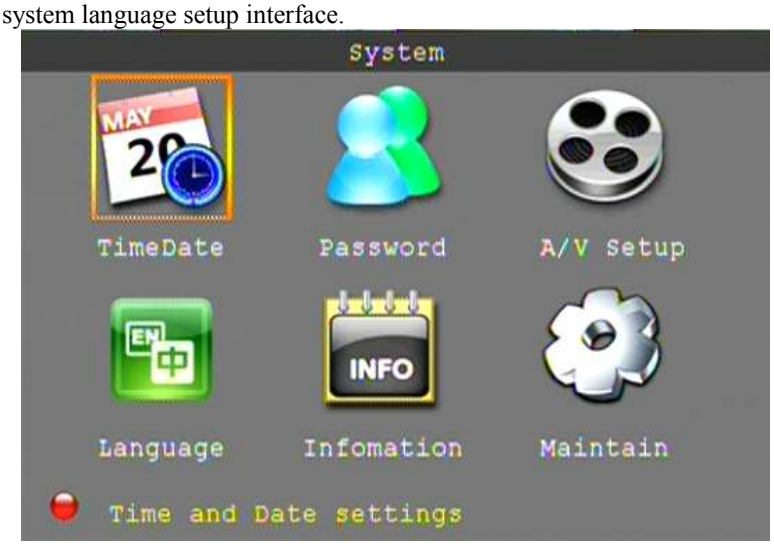
Mouse operation: click left and drag the frame to setup the region for motion detection.

2.2.3.6 EXIT

Move the cursor to【EXIT】（Icon with the orange box means that selected）,press【Enter】to back to main menu.

2.2.4. SYSTEM SETUP

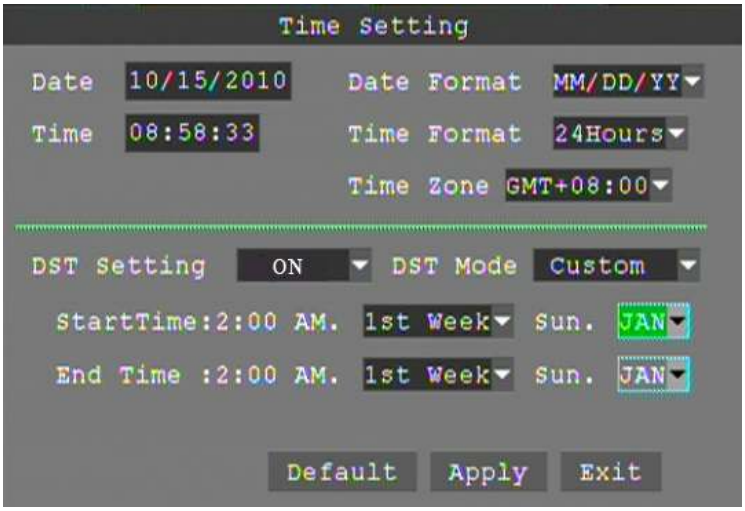
Move cursor to select【SYSTEM】(Icon with the orange box means that selected)and press【ENTER】to enter into the system language setup interface.



System setups include time/date, password, video/audio, language, info and maintain six options.

2.2.4.1 DATE/TIME SETUP

Move cursor to select【TIMEDATE】(Icon with the orange box means that selected)and press【ENTER】to enter into the date/time setup interface.



DATE: Setup system date via numeric key.

DATE FORMAT: Press ENTER to switch between the date patterns, there are YY-MM-DD and MM/DD/YY two options.

TIME: Setup system time via numeric key.

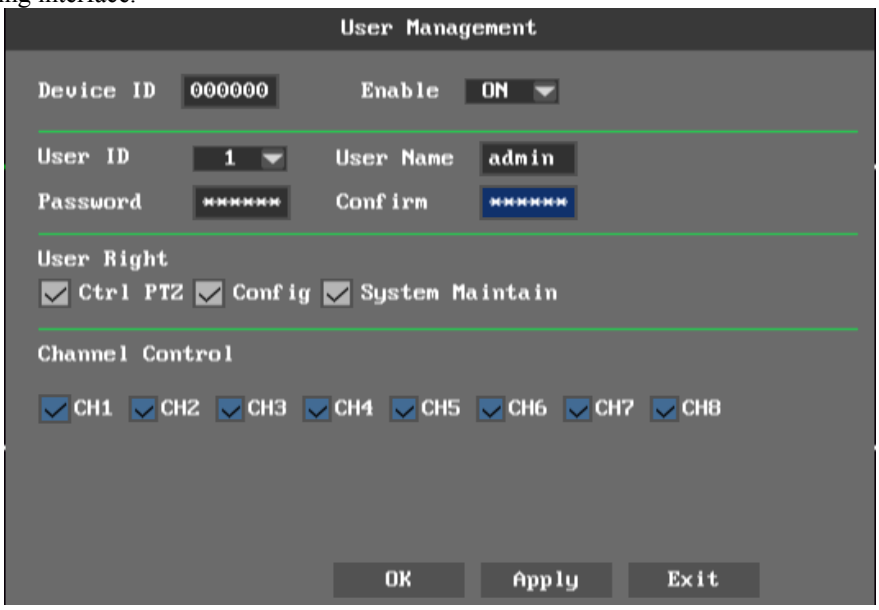
TIME FORMAT: Press ENTER to switch between the date patterns, there are 12 HOURS and 24 HOURS two options.

Remark: You must press 【APPLY】 to save it, otherwise it won't save the modify if you exit this interface.

DST: DST settings, you can setup DST as you want here.

2.2.4.2 PASSWORD

Move the cursor to【PASSWORD】（Icon with the orange box means that selected）, press【Enter】to enter into the setting interface.



Device ID：Press figures to set Device ID directly. After finished, if you want to control DVR by remote controller, you need to press [Login/Lock]+ Device ID first, then you can control it by remote controller.（Please check Chapter Three for the introduction of remote controller.）

User ID：Press [OK] to select user ID, it supports 5 User IDs.

User Name：You can change user name here. (Note: admin can not be changed)

Password：Enter figures to set your passwords. (Note: max 6 figures; System Administrator [admin]

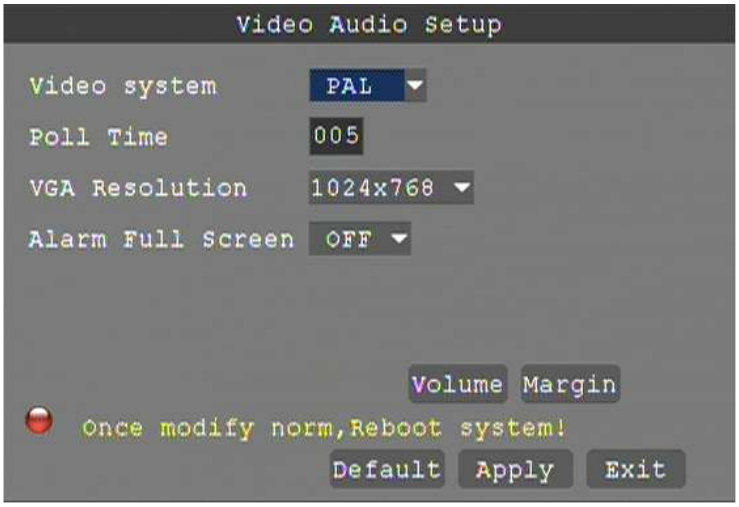
default password is: 123456), default password of [user1] is: 123456)

User Right：[Control PTZ]: Have right to control PTZ
[Config. Argum.]: Have right to change system parameters settings.
[System Maintain]: Have right to maintain systems(Such as system upgrade, system default)

control channel: control channel whether to display the image preview of IE browser，When checked, the channel image，Does not display when not checked

2.2.4.3 VIDEO/AUDIO SETUP

Move the cursor to【A/V SETUP】（Icon with the orange box means that selected）,press【Enter】to enter into setting interface.



VIDEO SYSTEM: press【Enter】to switch camera system, has PAL and NTSC two options

POLL TIME: the interval for channel loop function

SEQUENCE: you can setup the channel sequence as you want here.

VGA RESOLUTION: press【Enter】key to setup the VGA resolution, there are 1024*768,1280*1024,800*600 four options.

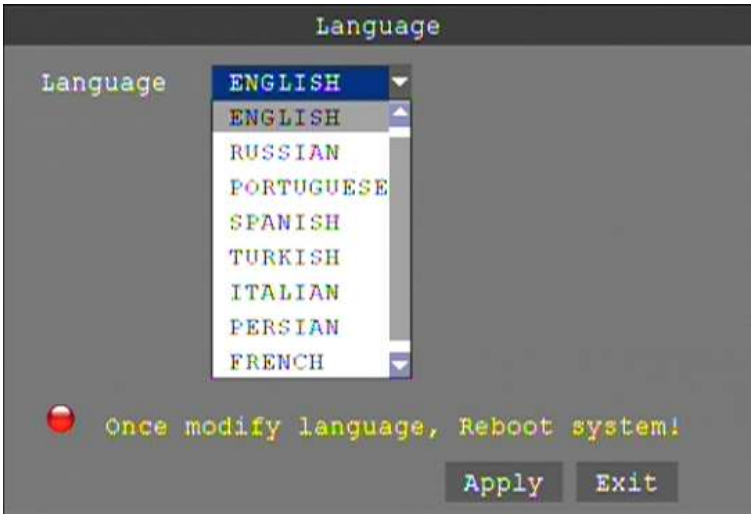
Alarm full screen: open the channel motion detection alarm screen full screen

VOLUME: move cursor to【VOLUME SETUP】,press【Enter】to enter into volume setup interface, press number keys or directly drag the cursor to adjust volume.

Remark: it will restart if you modify the Norm(video system) or VGA resolution.

2.2.4.4 LANGUAGE

Move cursor to select 【LANGUAGE】(Icon with the orange box means that selected)and press【ENTER】to enter into the system language setup interface.

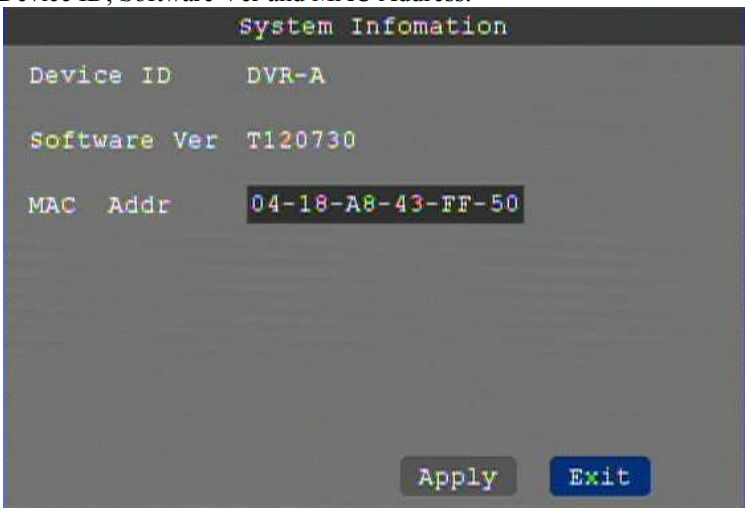


System language have Chinese ,English ,Russian ,Portuguese ,Spanish ,Turkish ,Italian ,Persian ,French and Polish ten options, you can setup the language you want in here.（Different versions of the language there will be differences）

Remark: The device will restart when you setup system language success.

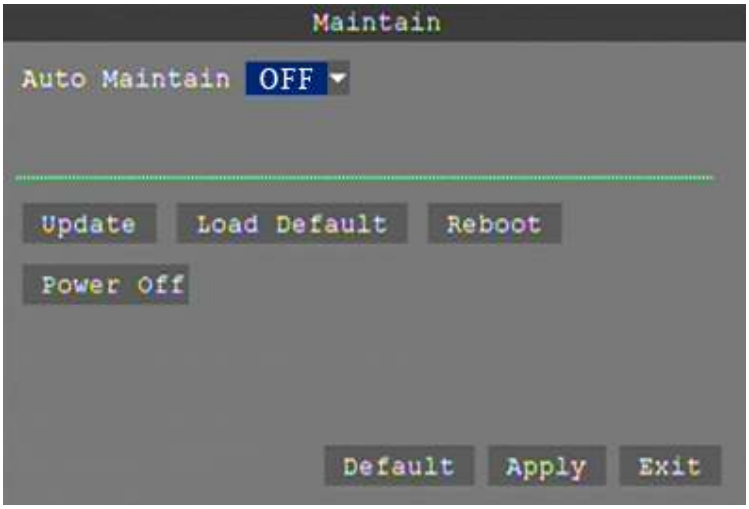
2.2.4.5 SYSTEM INFO

Move the cursor to【INFOMATION】（Icon with the orange box means that selected）,press【Enter】to enter into setting interface, at this interface mainly display system hardware features and firmware version, include : Device ID, Software Ver and MAC Address.



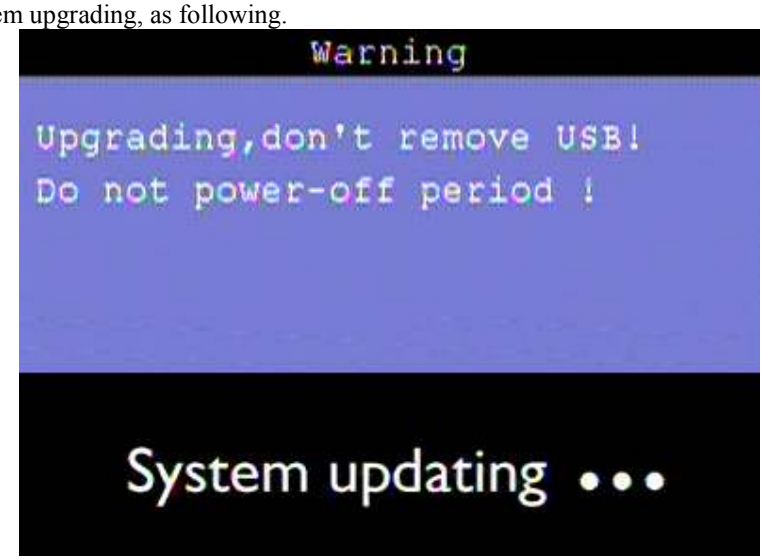
2.2.4.6 SYSTEM MAINTAIN

Move the cursor to 【MAINTAIN】(Icon with the orange box means that selected), and press【Enter】to enter into system maintain setup interface.



AUTO MAINTAIN: When switch is on, you can setup the time for device to restart.

SYSTEM UPDATE: Copy the update file to the "dvrupgrade" folder in the root directory of the thumb driver, and insert it into USB 2.0, then press [Enter] to upgrade the firmware, and it will display the process of the system upgrading, as following.



REBOOT: means restart the device.

POWER OFF: The button allows to shut down the system from OSD.

3. IE OPERATION

3.1. CONNECTION SETTINGS

DVR through the remote access network, local area network connection, the client computer's IP address must be with the DVR at the same network segment, in the wide area network connection through the dynamic IP address or domain name to connect, when the two sides need to ensure that public network can access it. The following introduces the method of local area network connection settings:

1.right-click "My Network Places" in the pop-up menu, click on "Properties", open "Network Connections."

2.Double-click open the "Local Area Connection." (Figure 8-3)

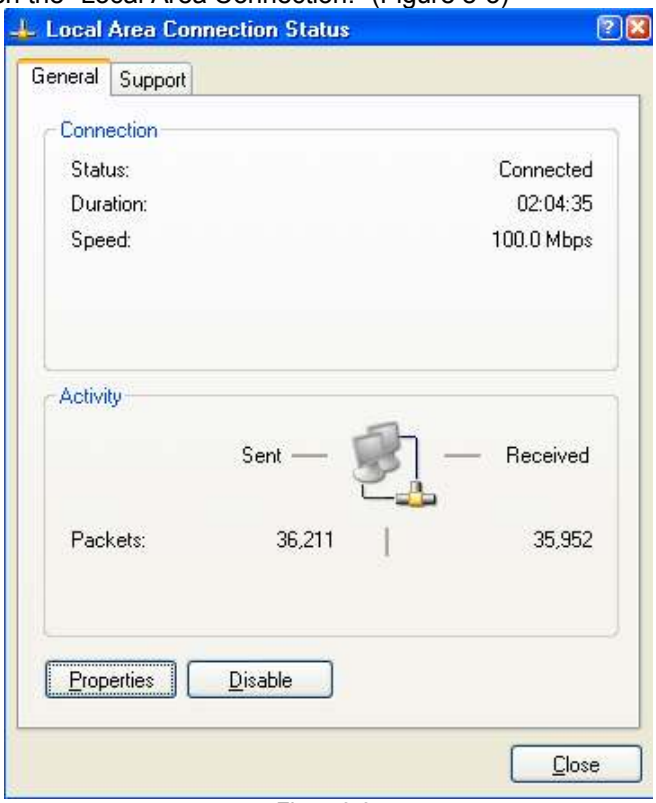


Figure3-3

3. Click "Properties." (Figure 8-4)

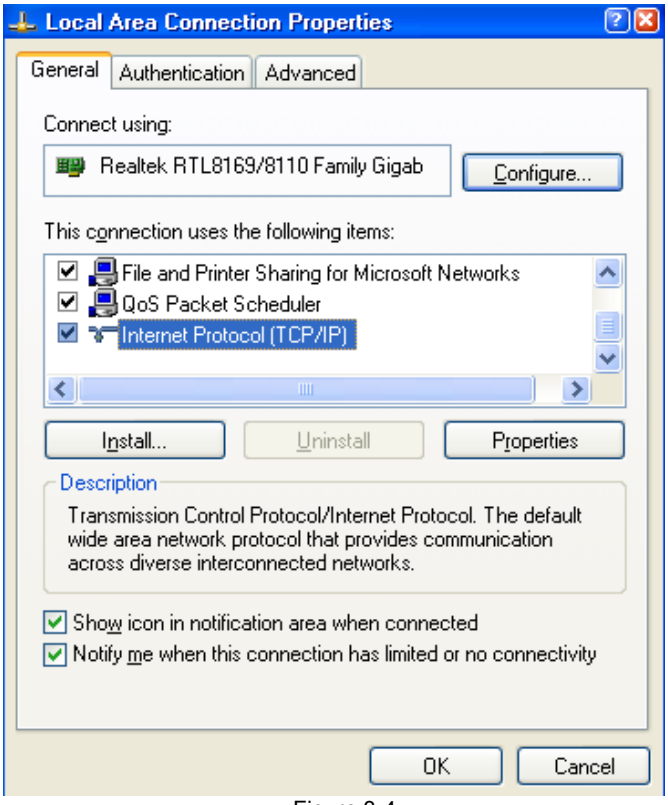


Figure 3-4

4. Double-click "Internet Protocol (TCP / IP)". (Figure 8-5)

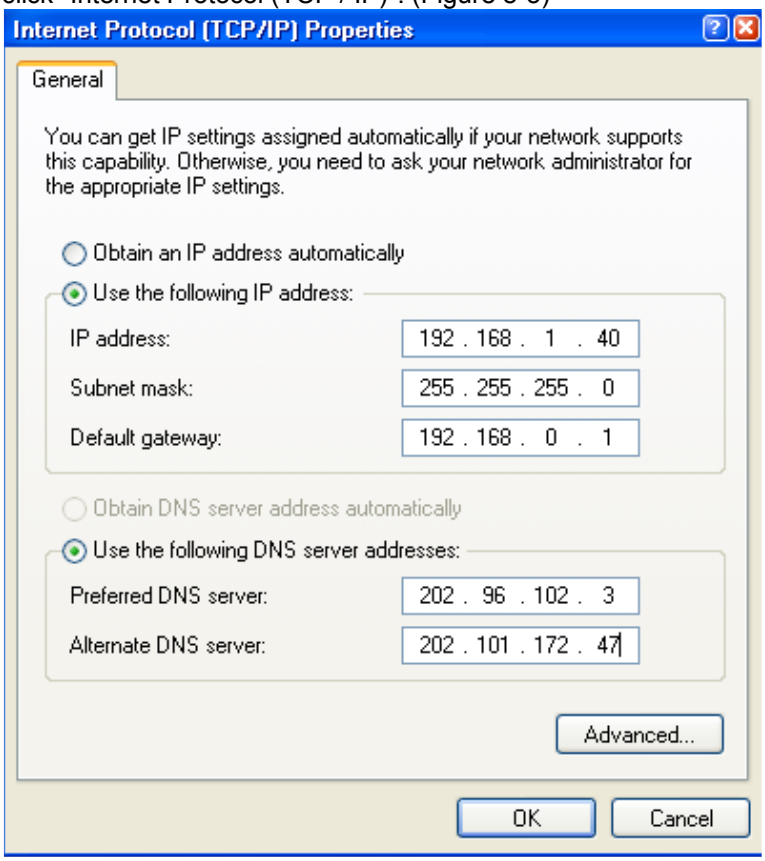

Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 1 . 40
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 0 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 202 . 96 . 102 . 3
Alternate DNS server: 202 . 101 . 172 . 47
Advanced...
OK
Cancel

Figure3-5

5. See PC's IP address, subnet mask, default gateway. (Figure 8-5 in the parameters depending on the specific circumstances of different users)

6. DVR set up the corresponding IP address, subnet mask, and default gateway (see section 6.5 Network Settings). DVR which the subnet mask, default gateway and the PC the same as, IP address must be in the same network segment, but you can not have been used with the same IP address, or IP addresses will result in conflict. The above map for example, IP address should be: 192.168.0.X, in which X is not 40 or 1 (including the other is using the IP address), and can not be more than 255, the subnet mask is 255.255.255.0, gateway to 192.168.0.1.

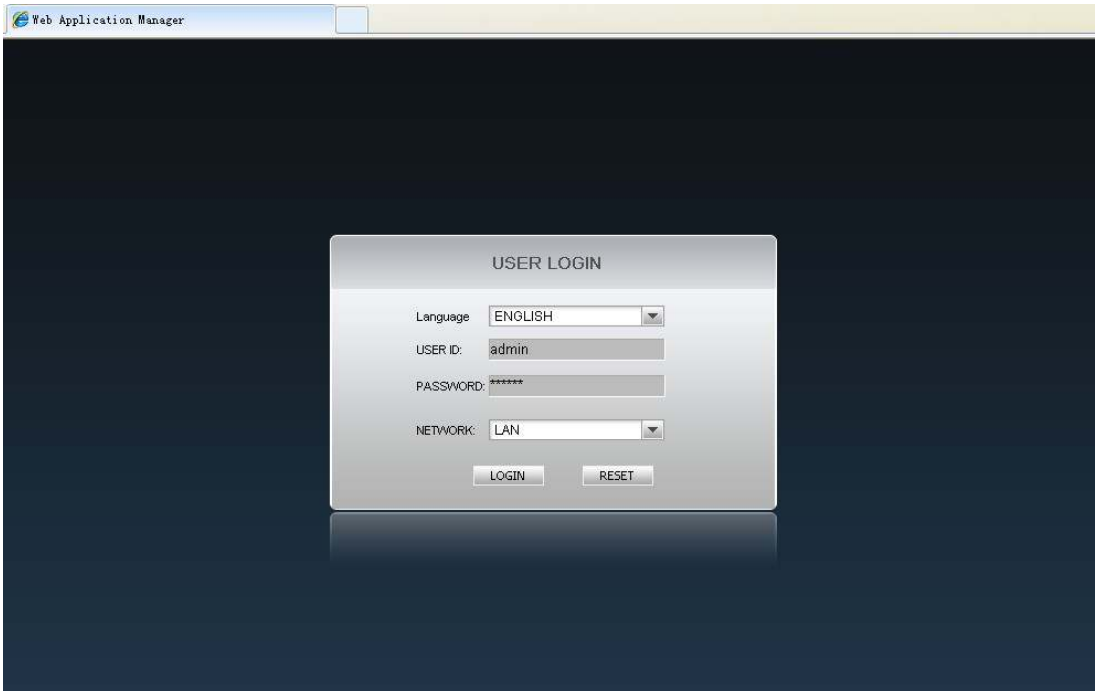
3.2. FEATURE

Through the IE browser of OS and install the software, you are able to do the network operation remotely, which is much more convenient. DVR support C/S, B/S, and visit in LAN and WAN, also support IP and domain name visiting.

Remark: Operating system Windows XP, Windows Vista and Browser IE6.0, IE7.0 is recommended

3.3. USER LOGIN

Input the DVR local IP in IE browser, when changed the port, you should add the port number after IP address, e.g. if DVR local IP is 192.168.1.118 (LAN) and the port is 8088, you should input 1http:// 192.168.1.118:8088. The default port is 8088, and directly input http:// 192.168.1.118 to access the login interface as following.



Select English interface in the top left side. Input username and password to enter into the system. The username and passport is same as the ones set in DVR，Sign in IE must enter a user name and password to log in, the user name and password consistent with the DVR，the default administrator user: admin, the corresponding password is: **123456**，

PASSWORD: Administrator has all authorities, operator has limited authorities who they can only watch, playback, please change the unit No. and default password is blank.

NETWORK: LAN/INTERNET(WAN)

Remark: If you connect the device in WAN, the IP should be a public IP.

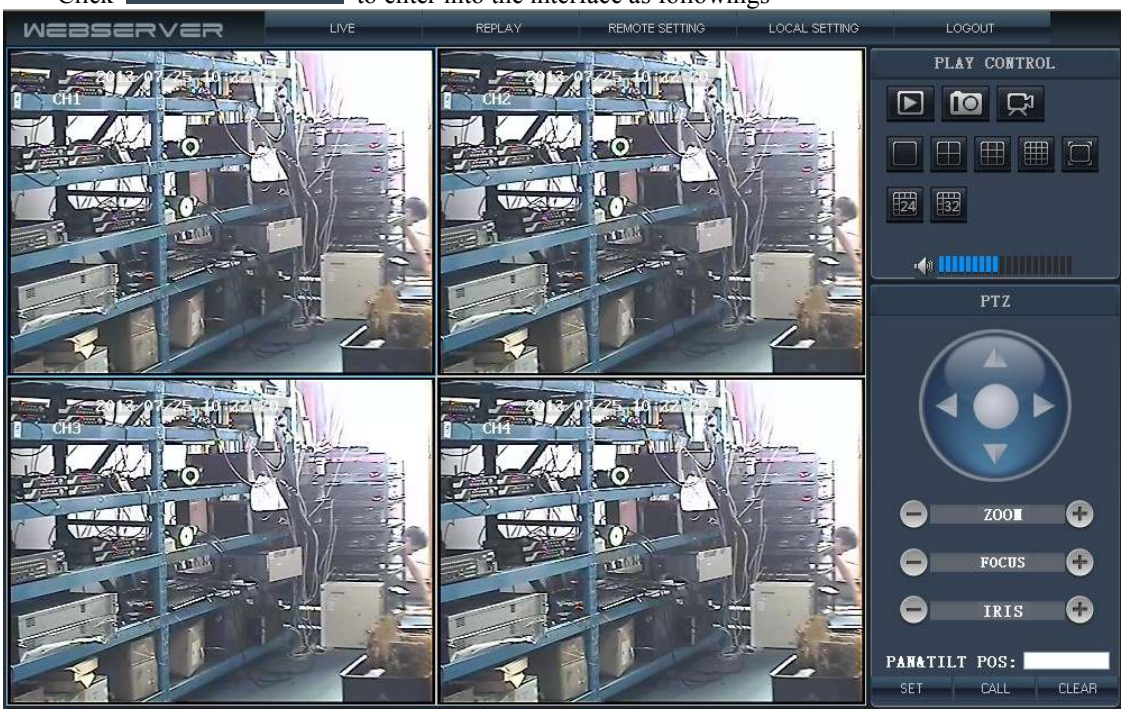
3.4. OPERATION INTERFACE

There are Live view, Playback and Setup options in the main interface, please press them to access it.

3.4.1. LIVE

Click

to enter into the interface as followings



3.4.1.1 PTZ CONTROL

Change the focus, preset aperture to control the PTZ.

Click to up/down/left/right control movement of the PTZ. When hold on the one direction key, the PTZ will keep circling as that direction after user press the stop key in the center of the wheel.

3.4.1.2 ZOOM

Click

to zoom in and out.

Click

to focus

Click

to change the size of aperture

3.4.1.3 PTZ PRESET

Setup preset point.

You can control it via the below three buttons:

3.4.1.4 PLAY

Move cursor to the icons, it will highlighted when selected

Open all windows.

Capture picture, save in local disk, the default save path is C:/DVR

Quickly start all channels' recording video, here the left up corner of each channel have normal recording video symbol 【R】, click icon to switch between single screen /quad /nine /16 split / full screen .

Volume adjust button

3.4.1.5 OTHER OPERATION

1. Select one channel at preview screen (the selected channel's frame will be change to RED), double click left key, enter to the selected channel single screen display.
2. Click one Chanel via left key at preview screen, then click right key, will occur window shortcut Menu, see below picture

You can open, shut down and start this channel's record via shortcut menu.

3.Click right key at one live view screen, click" open all windows" or " close all windows", will quickly open/close all windows.

3.4.2. REPALY(IE Browser)

Step 1. Click "Replay" option.

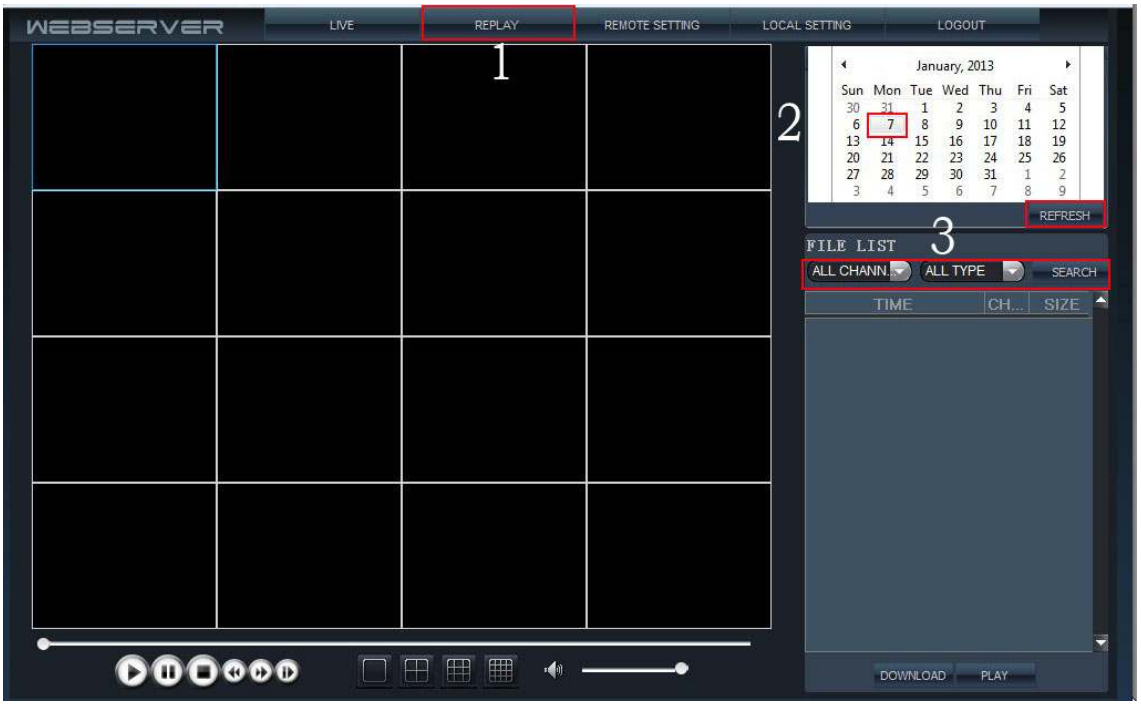
Step 2. Click the date which you would like to playback.

Step 3. Also, you can click "

" button to search the video file again, or use file list to choose which channel you would like to playback, and then click on "

" button.

*The video file list will be displayed.



Step 4. Click specified video file which you would like to playback, remotely.

The video will be displayed. When the video file is playing, the system won't allow you to download video files.

Step 5. Close the playing video and then click DOWNLOAD button to download video file.

Step 6. When the video file was downloaded, the dialogue box will display.

Step 7. Playback control

The above purple progress bar shows download progress, green progress bar shows playback progress

Switch between pause/play

Pause

Stop play

Fast play

Slow play

Pause at next frame

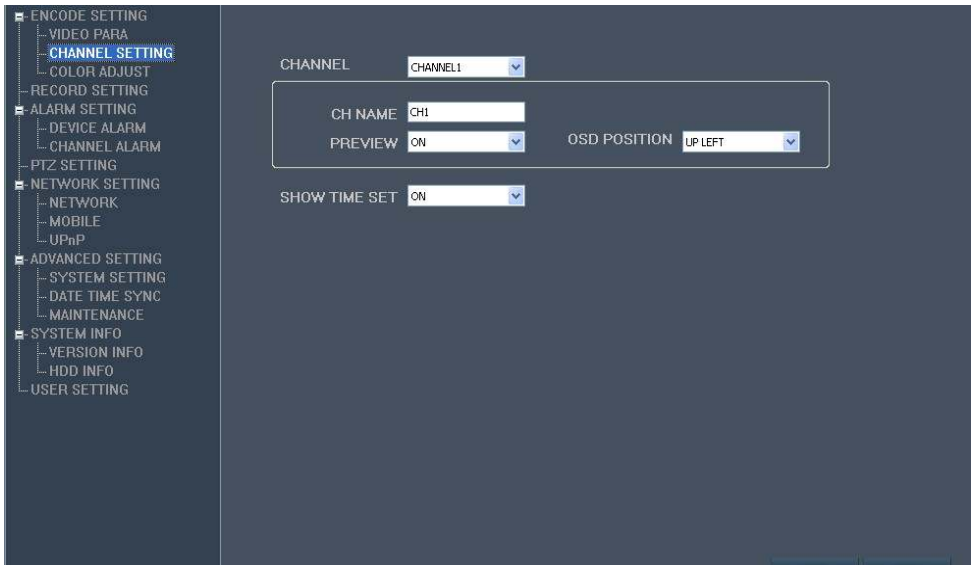
3.4.3. REMOTE SETTING

Click to enter into setup interface, this interface include Encode setting, Record setting, Alarm setting, PTZ setting, Network setting,Advanced setting and system information seven menus.

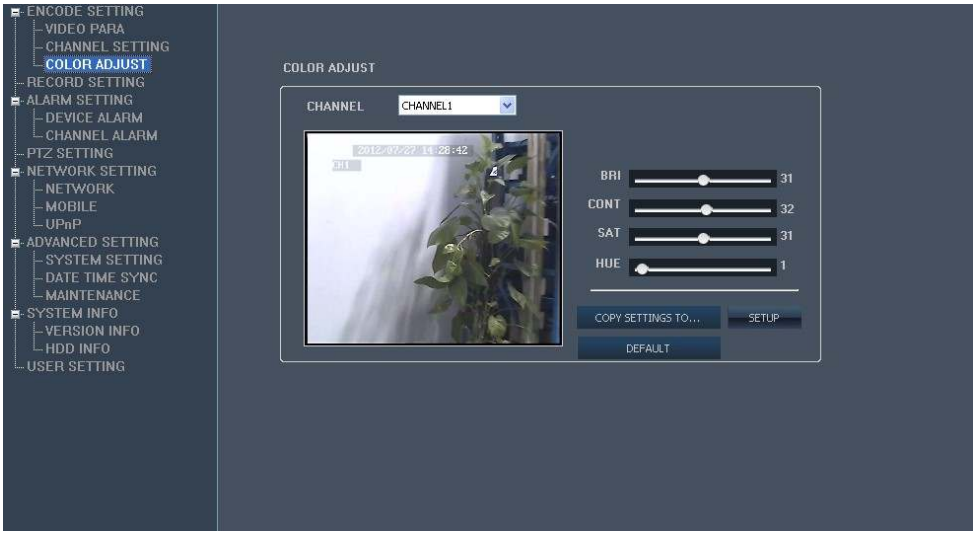
3.4.3.1 ENCODE SETTING

Click to enter into setup interface; you can check the parameter settings as in GUI of DVR.

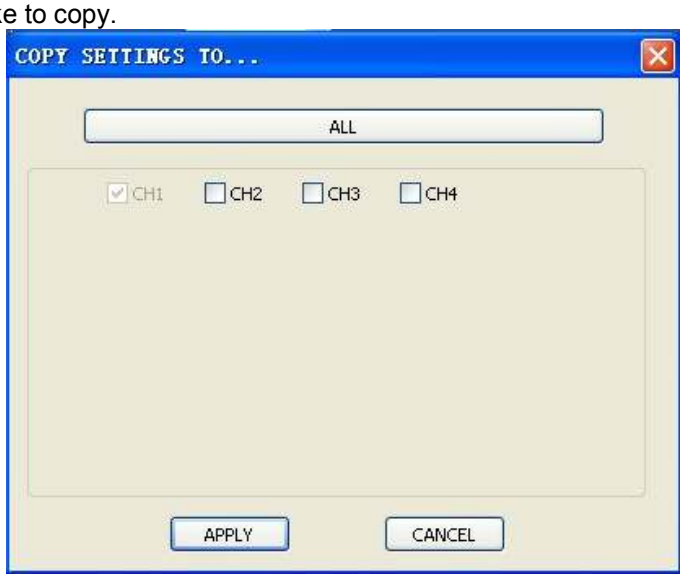
Click AV CHANNEL BIND to enter into setup interface; you can check the parameter settings as in GUI of DVR.



Click COLOR ADJUST to enter into setup interface; you can check the parameter settings as in GUI of DVR.



when you see " COPY SETTINGS TO... " button, you can copy the setting to the channel which you would like to copy.

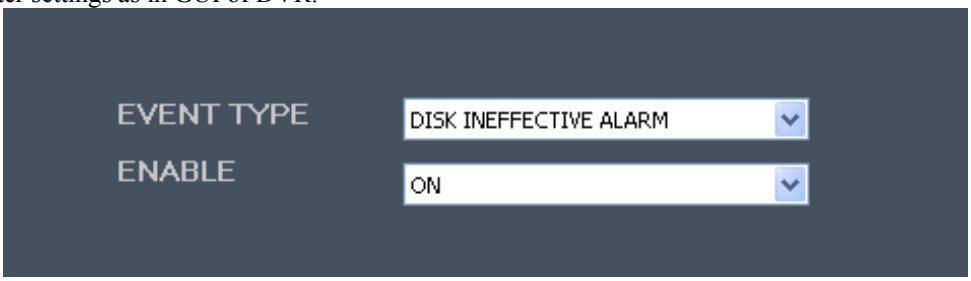


3.4.3.2 RECORD SETTING

Click RECORD SETTING to enter into setup interface; you can check the parameter settings as in GUI of DVR.

3.4.3.3 ALARM(Optional)

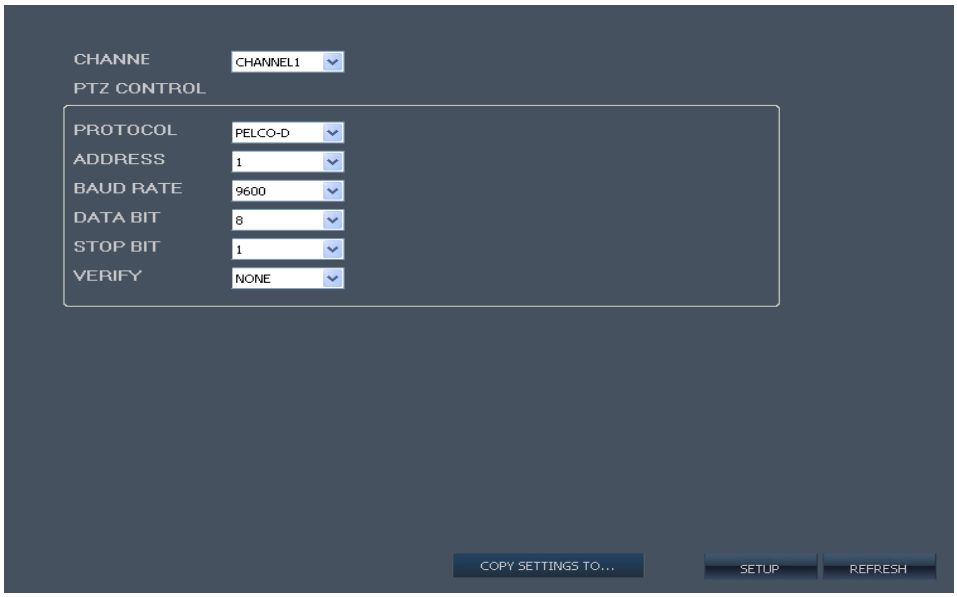
Click ALARM SETTING and DEVICE ALARM to enter into setup interface; you can check the parameter settings as in GUI of DVR.



Click CHANNEL ALARM to enter into setup interface; you can check the parameter settings as in GUI of DVR.

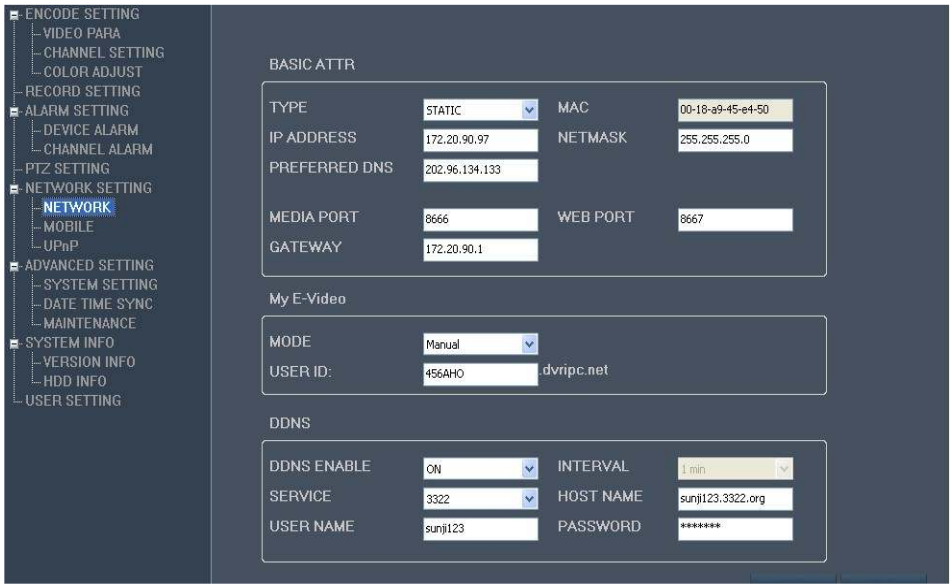
3.4.3.4 PTZ

Click PTZ SETTING to enter into setup interface; you can check the parameter settings as in GUI of DVR.

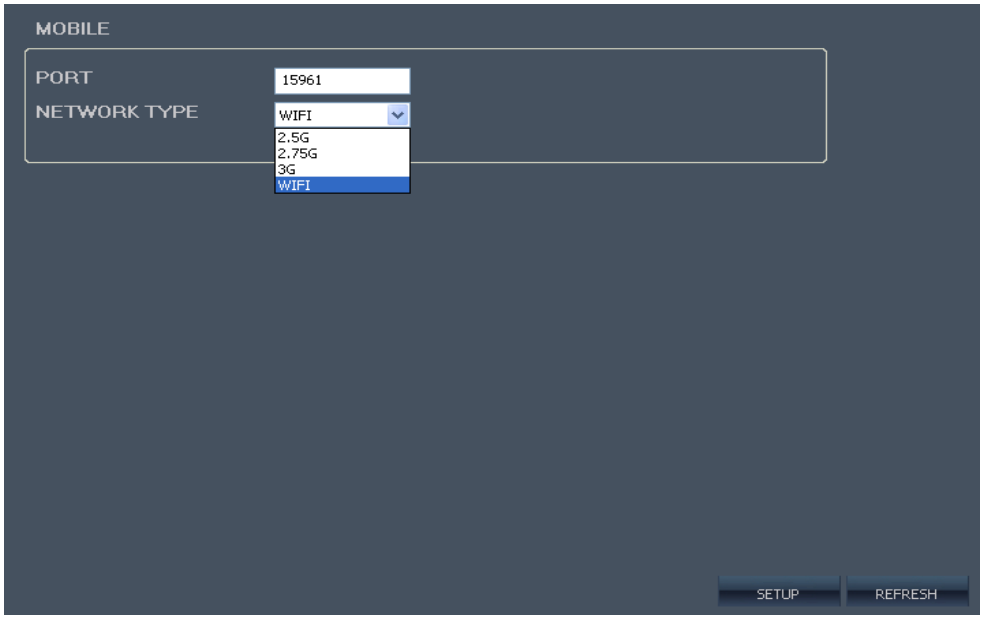


3.4.3.5 NETWORK

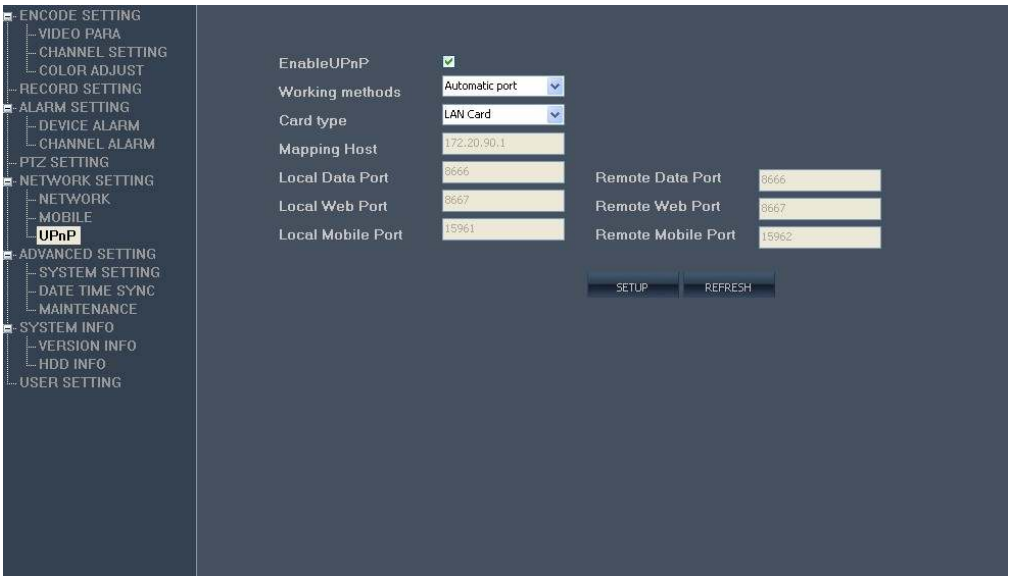
Click NETWORK SETTING to enter into setup interface; you can check the parameter settings as in GUI of DVR.



Click MOBILE to enter into setup interface; you can check the parameter settings as in GUI of DVR



Click UPnP, enter into [UPNP] settings interface as below:

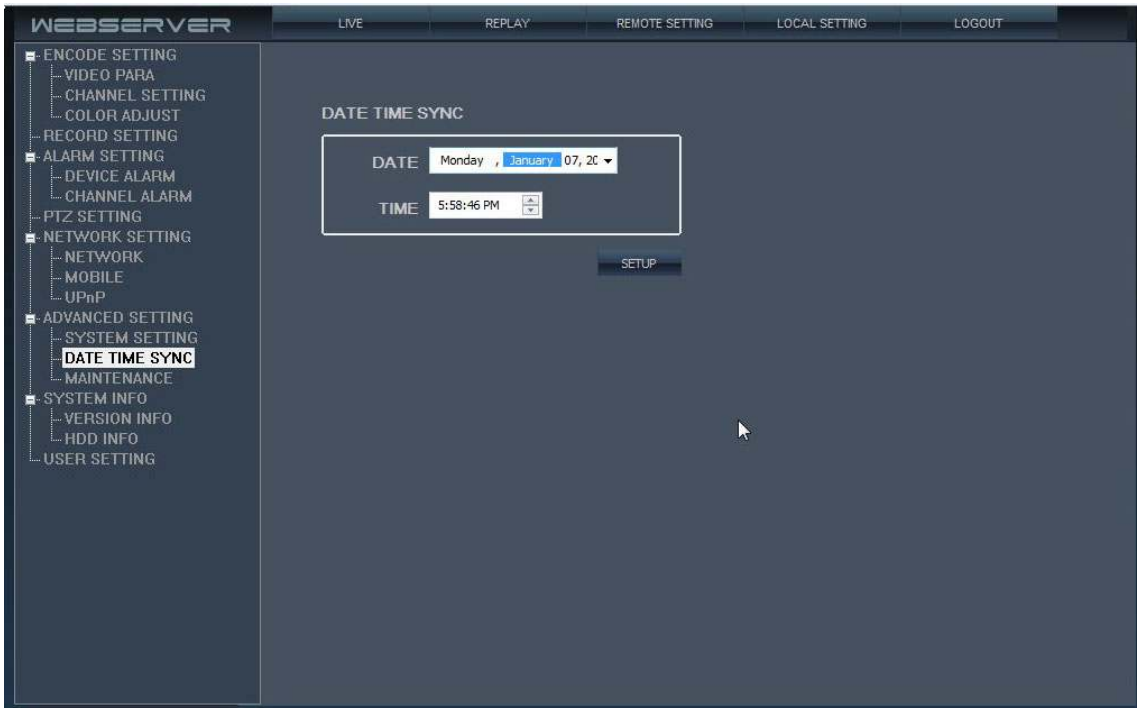


After open UPNP, DVR IP will be automatically maped to the router.(Note: It requires router supports this function and UPNP opened)

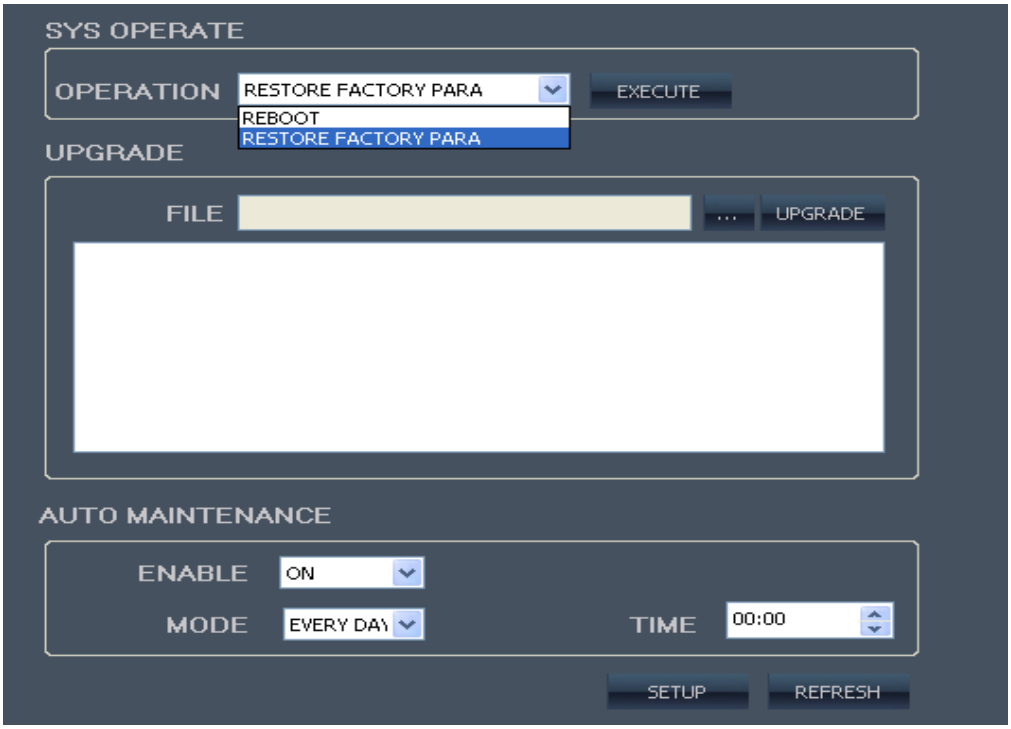
3.4.3.6 ADVANCED SETTING

Click ADVANCED SETTING and SYSTEM SETTING to enter into setup interface; you can check the parameter settings as in GUI of DVR.

Click ADVANCED SETTING and DATE TIME SYNC to enter into setup interface; you can check the parameter settings as in GUI of DVR.



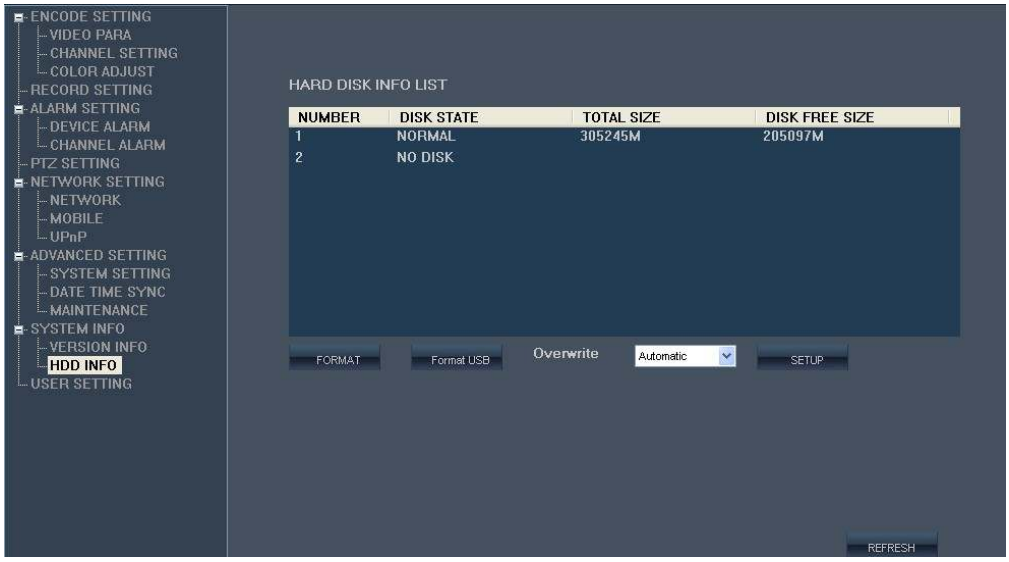
Click MAINTENANCE to enter into system information interface; you can check the parameter settings as in GUI of DVR.



3.4.3.7 SYSTEM INFO

Click SYSTEM INFO to enter into system information interface (see below picture), this interface shows HDD status, remain record time, firmware version, and all the information is fixed.

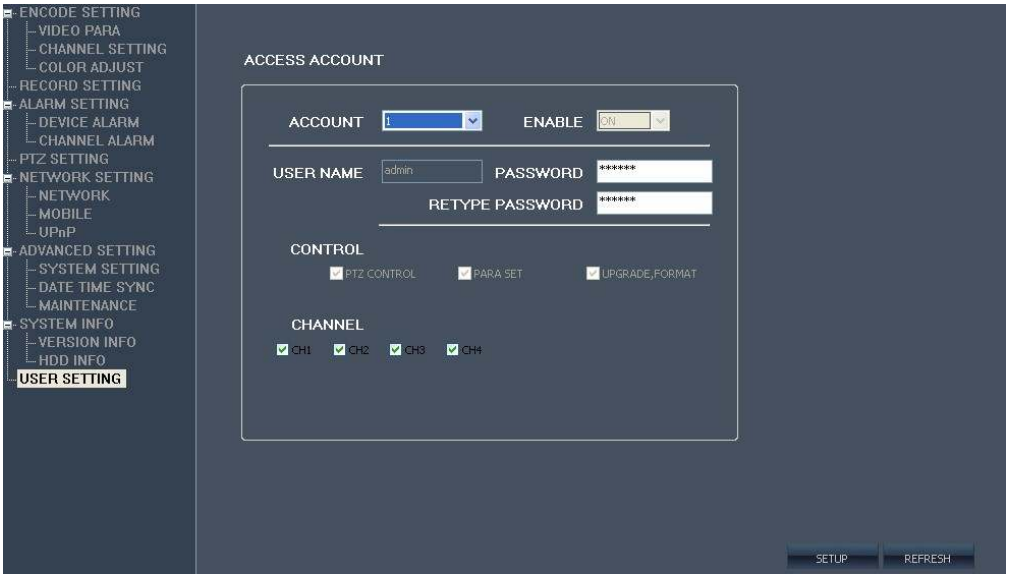
Click HDD INFO to enter into setup interface; you can check the parameter settings as in GUI of DVR



3.4.3.8 USER SETTING

Click

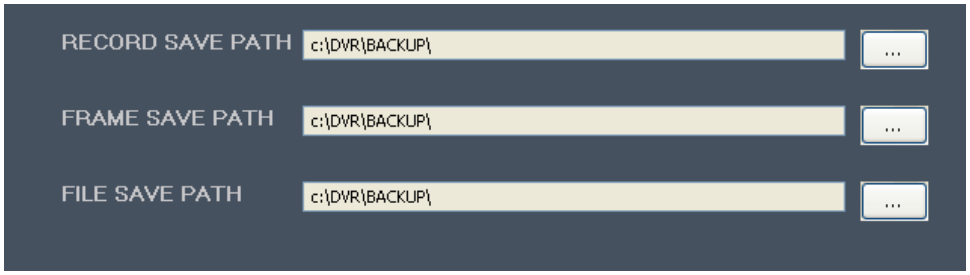
to enter into system information interface，Only the administrator "admin" users can log in to add (to add up to four ordinary users), and only administrators can modify the normal user name and password corresponding to the ordinary user, each user name must be the corresponding password to log in and the corresponding operating authority, the default administrator user name: admin ， password is 123456



3.4.4. LOCAL SETTING

Click

to enter into setup interface; you can check the parameter settings as in GUI of DVR



FILE SAVE PATH: capture picture and recording video save path

3.4.5. LOGOUT

Click

Switch to login screen.

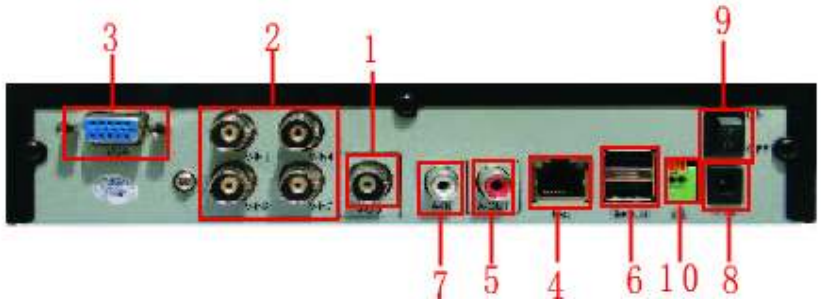
3.5. PRODUCT OVERVIEW

3.5.1. The Definition of Buttons and Connectors on DVR Front Panel

Buttons on Front Panel

NO.	TYPE	NAME	Instruction
1	Power	POWER	System on \ off key
2	Function keys Menu	MENU	Main menu
		REC/STOP	Recording control buttons
		◀◀ ▶▶	Fast forward/backward playback
		▶	Playback/play
		■/▶	Playback/play by frame
		ESC	Exit
3	Status indicator	POWER	Power
		REC	Recording
4	IR receiver	IR	Remote control receiver
5	Control button	Direction key	direction key include: up【▲】、down【▼】、left【◀】、right 【▶】 four buttons.
6	OK	Confirm operation	Enter

3.5.2. DVR rear board interface definition

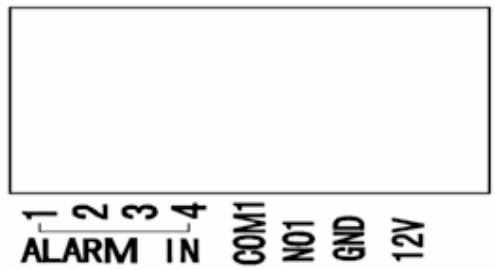


Connectors on Rear Panel

Item	Physical connector	Connector description
1	V-out	One video output for connecting TV or monitor (BNC)
2	Video In	For connecting analog video signal input (BNC)
3	VGA	For connecting VGA monitor
4	Net	For connecting Ethernet
5	A-out	For connection audio output
6	USB/MOUSE	USB2.0/USB mouse
7	Audio In	Audio input
8	DC +12V	Power interface
9	Power switch	Power On/Off
10	RS485+ RS485-	RS-485 for connecting PTZ

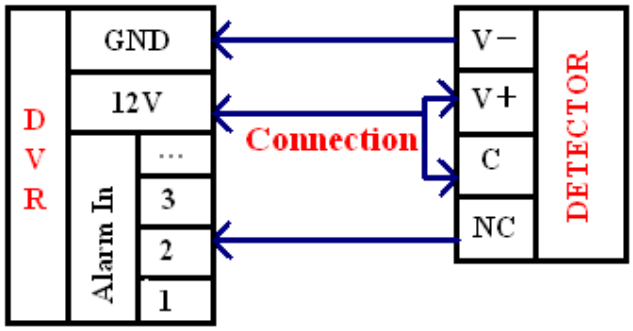
3.6. Alarm post interface (optional)

Connection method of alarm post: firstly strip the cable to be connected, then use a small screwdriver to jack up orange part, put the cable into the receptacle then loosen the screwdriver to fasten.

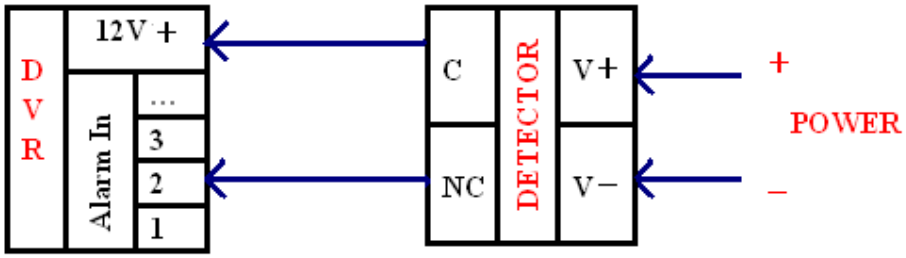


Alarm Input and Output

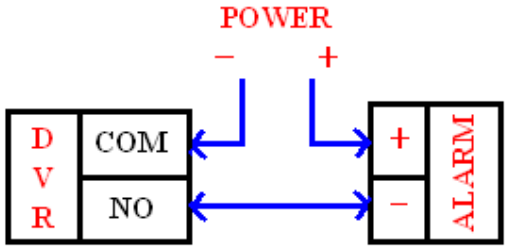
There are 8 sets alarm input connector and 1 set output for this DVR. Alarm input is for connection IR annunciator, fog sensor. The connection diagram of DC alarm input as following:



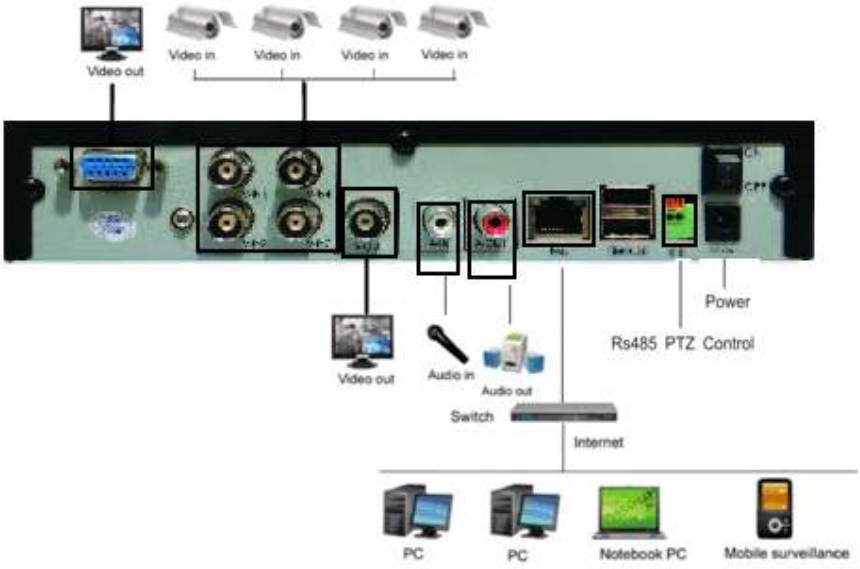
Connection diagram of AC alarm input as following:



The connection diagram of alarm output as following:

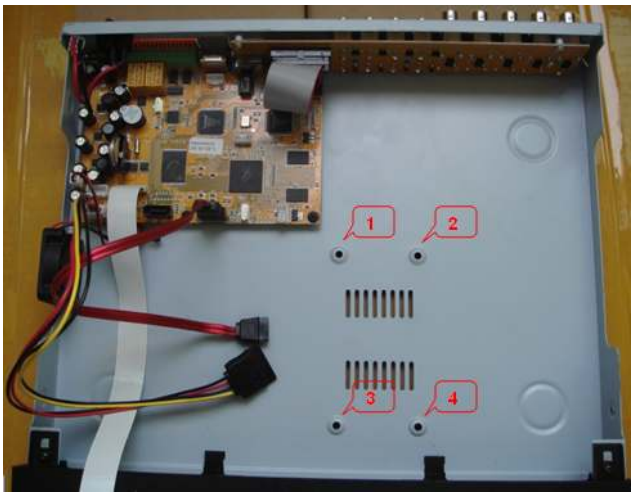


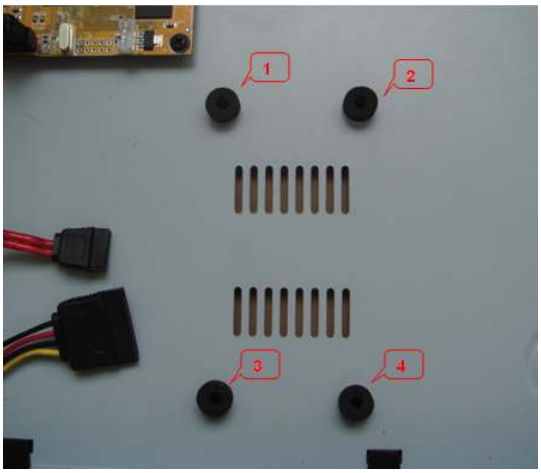
System Network Diagram



3.7. HDD INSTALLATION

Please installation the HDD as shown below:





Notice: Newly installed HDD should format before recording

4. FAQ

If your problem is not listed below, please call our toll-free number for more support.

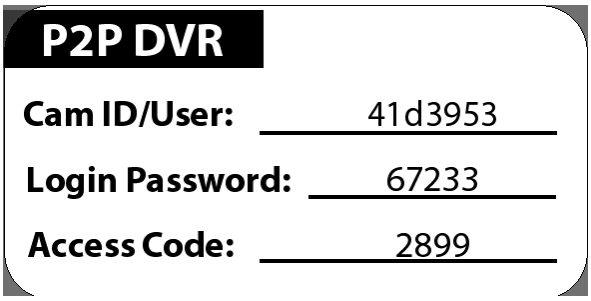
1. **Question: DVR is not working after starting?**
   Answer:
   - ✧ Check the adaptor input
   - ✧ Check the on-off power line, is it well-connected?
   - ✧ Check the power on-off
   - ✧ Check the upgrade procedure
   - ✧ Check the main board of DVR
2. **Question: DVR is rebooting automatically or stopped after starting the DVR for several minutes?**
   Answer:
   - ✧ Instability or low input voltage
   - ✧ Bad track hard drive or the line of hard drive is bad
   - ✧ On-off power supply is not enough
   - ✧ The front-end video signal instability
   - ✧ High temperature, too much dust, too bad the DVR operating environment
   - ✧ The main board is not well-connected with other boards
   - ✧ The hardware of DVR is defective
3. **Question: No output of single channel, multi channel or all channel video?**
   Answer:
   - ✧ Please check the adaptor of camera whether to see if it is well-connected
   - ✧ Please check the cable for connecting video input/output in the back panel of DVR
   - ✧ Please insert the video source directly into the display device and check If they are causing the problem.
   - ✧ Check the brightness of the picture and bring it back to its original default setting
   - ✧ No video input signal or too weak
   - ✧ Display settings in the preview set to be closed
   - ✧ The hardware of DVR is defective
4. **Question: DVR cannot record after startup and the interface is showing "H"**
   Answer:
   - ✧ Make sure power adaptor is DC 12V
   - ✧ Make sure HDD is formatted
   - ✧ Check the power and data connection cables of the HDD
   - ✧ The HDD is defective
   - ✧ The SATA port is not working
5. **Question: What is meaning of"R""M""I""H" showed in interface?**
   Answer:
   - ✧ "R"means the channel is recording
   - ✧ "M" means the channel is on motion detection
   - ✧ "I"means the channel is on alarm
   - ✧ "H" means there is either no HDD. the HDD is bad or the HDD is full
6. **Question: DVR is having problem with real-time images, such as bad image color or serious brightness distortion**
   Answer:
   - ✧ If PAL and NTSC is not correctly selected on the BNC output, the images will be in black and white
   - ✧ DVR is not compatible with monitor
   - ✧ The video transmission distance is too far
   - ✧ The setting of DVR color, brightness and so on are wrong
7. **Question: No audio sound when monitoring?**
   Answer:
   - ✧ Check sound box or speaker functions. Also check possible short circuit.
   - ✧ Audio source may be connected to the video channel. You can click to full-screen to check.
   - ✧ The hardware of DVR is defective

8. **Question: No audio sound when playing back?**
   Answer:
   - ✧ Setting problem: open audio-video item
   - ✧ Check the audio to see if it is closed in playback interface
9. **Question: System time is not correct?**
   Answer:
   - ✧ Wrong setting or user did not click "Edit" to confirm
   - ✧ Battery is not connected properly
   - ✧ Battery is dead. Please change.
10. **Question: Why the "Stop recording" by the right mouse button does not work, how to stop recording?**
    Answer:
    - ✧ The "Stop recording" by the right mouse button is only suitable for Manual recording. It can't stop recording when it's in "start recording" or the video in video plan.
    - ✧ If you want to stop recording, please set the time is not recording.
11. **Question: "Stop recording" function by the right mouse button does not work. How to stop recording?**
    Answer:

    The "Stop recording" by the right mouse button is for Manual Recording only. It can not stop recording when it is in "start recording" or the video is in video plan. If you want to stop recording, please set the time to not recoding.
12. **Question: Motion detection is not working?**
    Answer:
    - ✧ The setting of motion detection area is not correct
    - ✧ Sensitivity is too low
13. **Question: CD-writer /USB backup error**
    Answer:
    - ✧ The data exceeds the capacity of backup device
    - ✧ The backup device is incompatible
    - ✧ The backup device is damaged
14. **Question: Remote control cannot work?**
    Answer:
    - ✧ The address of remote control is not correct
    - ✧ The distance of remote control is too far or the angle is too biased
    - ✧ Remote control batteries run out
    - ✧ Remote control is damaged or the front panel of DVR is damaged
15. **Question: WEB cannot login?**
    Answer:
    - ✧ Please check the network to see if it is connected. Check if LINK or 100M LED is displayed normally on the panel; use ping xxx.xxx.xxx.xxx (DVR IP) to check if the Internet is linked properly.
    - ✧ Recommended to use Windows XP or Vista operating system, also use IE6.0 browser or IE7.0 browser
    - ✧ ActiveX control has been blocked. Please manually install ActiveX control again.
    - ✧ Please install DX8.1 and upgrade your video card driver
16. **Question: There is no picture or picture is not clear when you preview the recording or playback the recording via IE**
    Answer:
    - ✧ If you access DVR by IE, please choose "Wan" in "web environment"
    - ✧ Please try "Close windows" by the right mouse button, and try "Open windows" again
17. **Question: It displays "other members are setting....." while setting DVR by IE**
    Answer:
    - ✧ It probably means someone else is setting the DVR. Please check the DVR configuration interface or exit DVR.

5. P2P DIT Platform

1. Check user name and password on the label at the bottom of the DVR

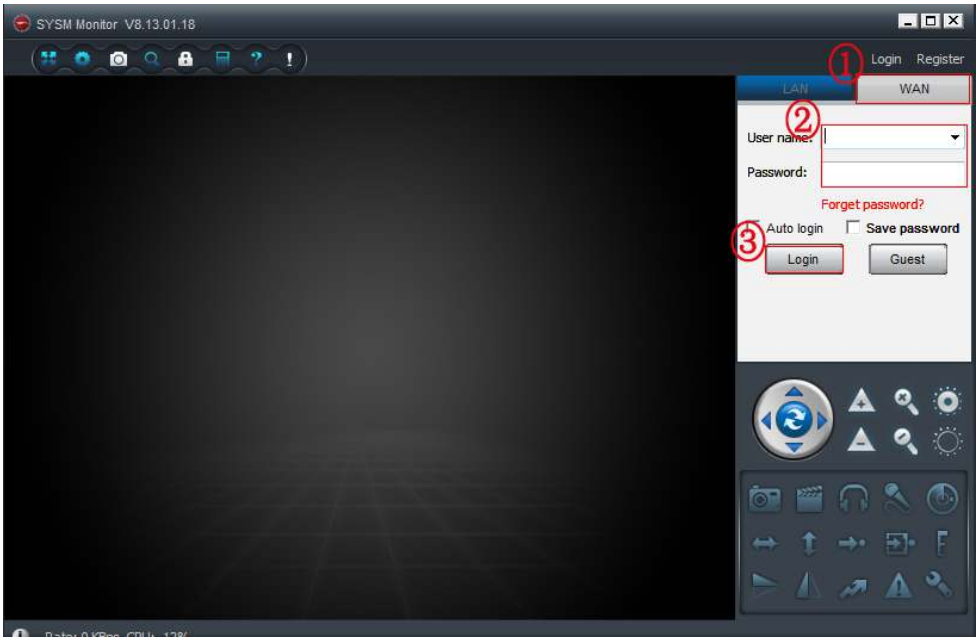


2. Login DVR via website: **http://ie.scc21.com**

ENTERPRISE RESOURCES PLANNING INFORMATION PROTAL
Plug & Play
LOGIN
②
UserName :
Password :
Language : English
Login
Visitor Enter
please note that do not set reminding your personal information in the public.
please exit system after viewed in the public to avoid unnecessary loss
How to make firefox to support OCX plugin
①
Plug-in Download

First download and install the Plug-in file .then input the DVR ID number and login password.

3. Login the DVR via SYSM Monitor software



Click WAN button and input DVR ID number、login password, then click login button